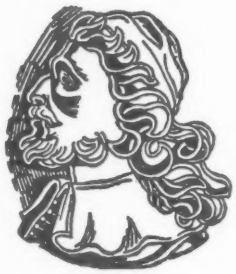
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No. 3083] [VOL. 119

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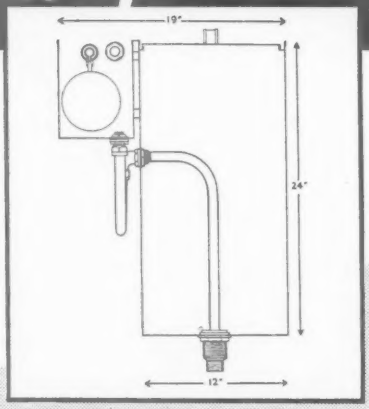
★ A glossary of abbreviations of Government Departments and Societies and Committees of all kinds, together with their full address and telephone numbers. The glossary is published in two parts—A to Ie one week, Ig to Z the next. In all cases where the town is not mentioned the word LONDON is implicit in the address.

AA	Architectural Association, 34/6, Bedford Square, W.C.1.	Museum 0974
AAI	Association of Art Institutions. Secy.: W. Marlborough Whitehead, "Dyneley," Castle Hill Avenue, Berkhampstead, Herts.	
ABS	Architects' Benevolent Society. 66, Portland Place, W.1.	Langham 5721
ABT	Association of Building Technicians. 5, Ashley Place, S.W.1.	Victoria 0447-8
ACGB	Arts Council of Great Britain. 4, St. James' Square, S.W.1.	Whitehall 9737
ADA	Aluminium Development Association. 33, Grosvenor Street, W.1.	Mayfair 7501/8
APRR	Association for Planning and Regional Reconstruction. 34, Gordon Square, W.C.1.	Euston 2158-9
ArchSA	Architectural Students' Association. 34/36, Bedford Square, W.C.1.	
ARCUK	Architects' Registration Council. 68, Portland Place, W.1.	Langham 8738
BAE	Board of Architectural Education. 66, Portland Place, W.1.	Langham 5721
BATC	Building Apprenticeship and Training Council. Lambeth Bridge House, S.E.1.	Reliance 7611, Ext. 1706
BC	Building Centre. 26, Store Street, Tottenham Court Road, W.C.1.	Museum 5400
BCC	British Colour Council. 13, Portman Square, W.1.	Welbeck 4185
BCCF	British Cast Concrete Federation. 105, Uxbridge Road, Ealing, W.5.	Ealing 9621
BCIRA	British Cast Iron Research Association. Alvechurch, Birmingham.	Redditch 716
BDA	British Door Association. 10, The Boltons, S.W.10.	Fremantle 8494
BEDA	British Electrical Development Association. 2, Savoy Hill, W.C.2.	Temple Bar 9434
BIA	British Ironfounders' Association. 145, Vincent Street, Glasgow, C.2.	Glasgow Central 2891
BIAE	British Institute of Adult Education. 29, Tavistock Square, W.C.1.	Euston 5385
BID	Building Industries Distributors. 52, High Holborn, W.C.1.	Chancery 7772
BINC	Building Industries National Council. 11, Weymouth Street, W.1.	Langham 2785
BOT	Board of Trade. Whitehall Gardens, Horseguards Avenue, Whitehall, S.W.1.	Trafalgar 8855
BRDB	British Rubber Development Board. Market Buildings, Mark Lane, E.C.3.	Mansion House 9383
BRS	Building Research Station. Bucknalls Lane, Watford.	Garston 2246
BSA	Building Societies Association. 14, Park Street, W.1.	Mayfair 0515
BSI	British Standards Institution. British Standards House, 2, Park St., W.1.	Mayfair 9000
BTE	Building Trades Exhibition. 4, Vernon Place, W.C.1.	Holborn 8146/7
CABAS	City and Borough Architects Society. C/o Johnson Blackett, F.R.I.B.A., Civic Centre, Newport, Mon.	Newport 5491
CAS	County Architects' Society. C/o F. R. Steele, F.R.I.B.A., County Hall, Chichester.	Chichester 3001
CCA	Cement and Concrete Association. 52, Grosvenor Gardens, S.W.1.	Sloane 5255
CCP	Council for Codes of Practice. Lambeth Bridge House, S.E.1.	Reliance 7611
CDA	Copper Development Association. Kendals Hall, Radlett, Herts.	Radlett 5616
CIAM	Congrès Internationaux d'Architecture Moderne. Doldertal, 7, Zurich, Switzerland.	
COID	Council of Industrial Design. Tilbury House, Petty France, S.W.1.	Abbey 7080
CPRE	Council for the Preservation of Rural England. 4, Hobart Place, S.W.	Sloane 4280
CUC	Coal Utilization Council. 3, Upper Belgrave Street, S.W.1.	Sloane 9116
CVE	Council for Visual Education. 13, Suffolk Street, Haymarket, S.W.1.	Reading 72255
DGW	Directorate General of Works, Ministry of Works, Lambeth Bridge House, S.E.1.	Reliance 7611
DIA	Design and Industries Association. 13, Suffolk Street, S.W.1.	Whitehall 0540
DPT	Department of Overseas Trade. Horseguards Avenue, Whitehall, S.W.1.	Trafalgar 8855
EJMA	English Joinery Manufacturers' Association (Incorporated), Sackville House, 40, Piccadilly, W.1.	Regent 4448
EPNS	English Place-Name Society. 7, Selwyn Gardens, Cambridge.	
FAS	Faculty of Architects and Surveyors. 67, Oxford Street, W.1.	Gerrard 0021
FASS	Federation of Association of Specialists and Sub-Contractors, Artillery House, Artillery Row, S.W.1.	Abbey 7232
FBBDO	Fibre Building Board Development Organisation, Ltd., Melbourne House, Aldwych, W.C.2.	Temple Bar 4561
FBI	Federation of British Industries. 21, Tothill Street, S.W.1.	Whitehall 6711
FC	Forestry Commission. 25, Savile Row, W.1.	
FCMI	Federation of Coated Macadam Industries. 37, Chester Square, S.W.1.	Sloane 1002
FDMA	The Flush Door Manufacturers Association Ltd. Trowell, Nottingham.	Ilkeston 623
FLD	Friends of the Lake District. Pennington House, nr. Ulverston, Lancs.	Ulverston 201
FMB	Federation of Master Builders. 26, Great Ormond Street, Holborn, W.C.1.	Chancery 7583
FPC	The Federation of Painting Contractors, St. Stephen's House, S.W.1.	Whitehall 3902
FRHB	Federation of Registered House Builders. 82, New Cavendish Street, W.1.	Langham 4041
FS (Eng.)	Faculty of Surveyors of England. 67, Oxford Street, W.1.	Gerrard 0021
GC	Gas Council. 1, Grosvenor Place, S.W.1.	Sloane 4554
GG	Georgian Group. 27, Grosvenor Place, S.W.1.	Sloane 2844
HC	Housing Centre. 13, Suffolk Street, Pall Mall, S.W.1.	Whitehall 2881
IAAS	Incorporated Association of Architects and Surveyors. 75, Eaton Place, S.W.1.	Sloane 5615
ICA	Institute of Contemporary Arts. 17-18, Dover Street, Piccadilly, W.1.	Grosvenor 6186
ICE	Institution of Civil Engineers. Great George Street, S.W.1.	Whitehall 4577
IEE	Institution of Electrical Engineers. Savoy Place, W.C.2.	Temple Bar 7676
IES	Illuminating Engineering Society. 32, Victoria Street, S.W.1.	Abbey 5215

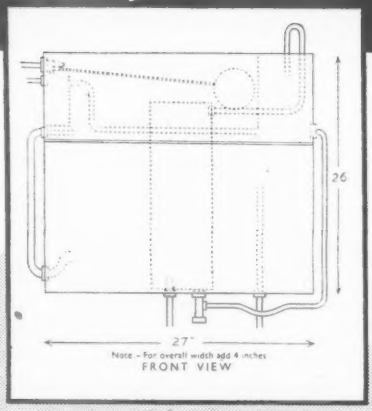
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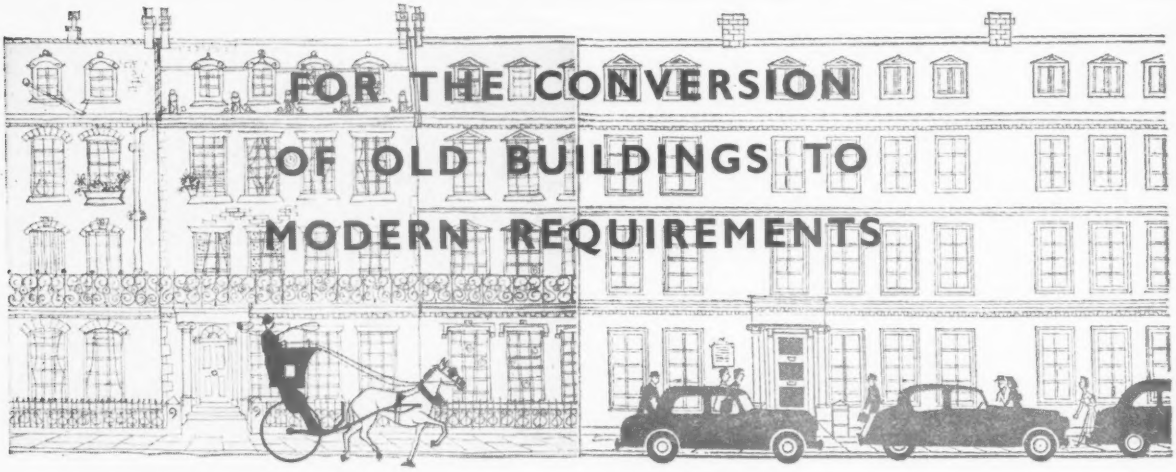
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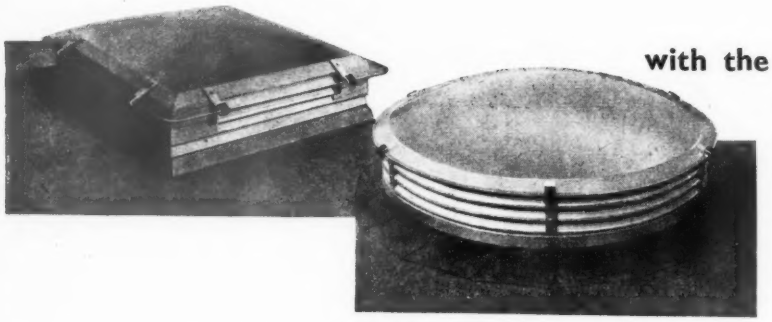
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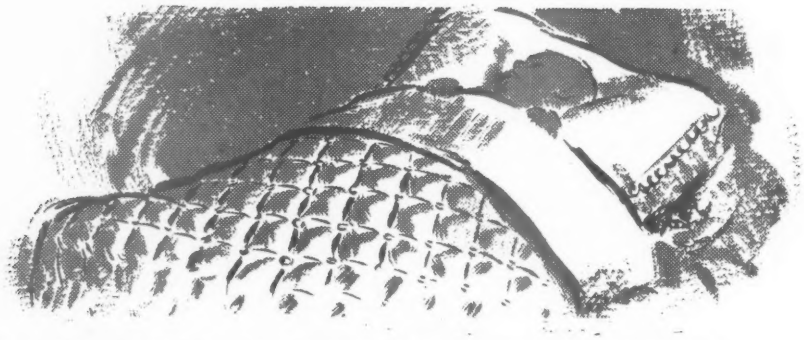
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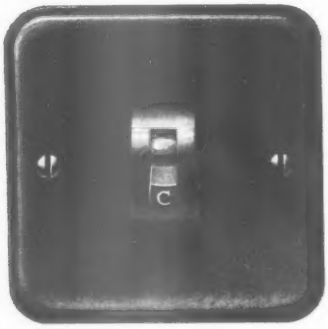


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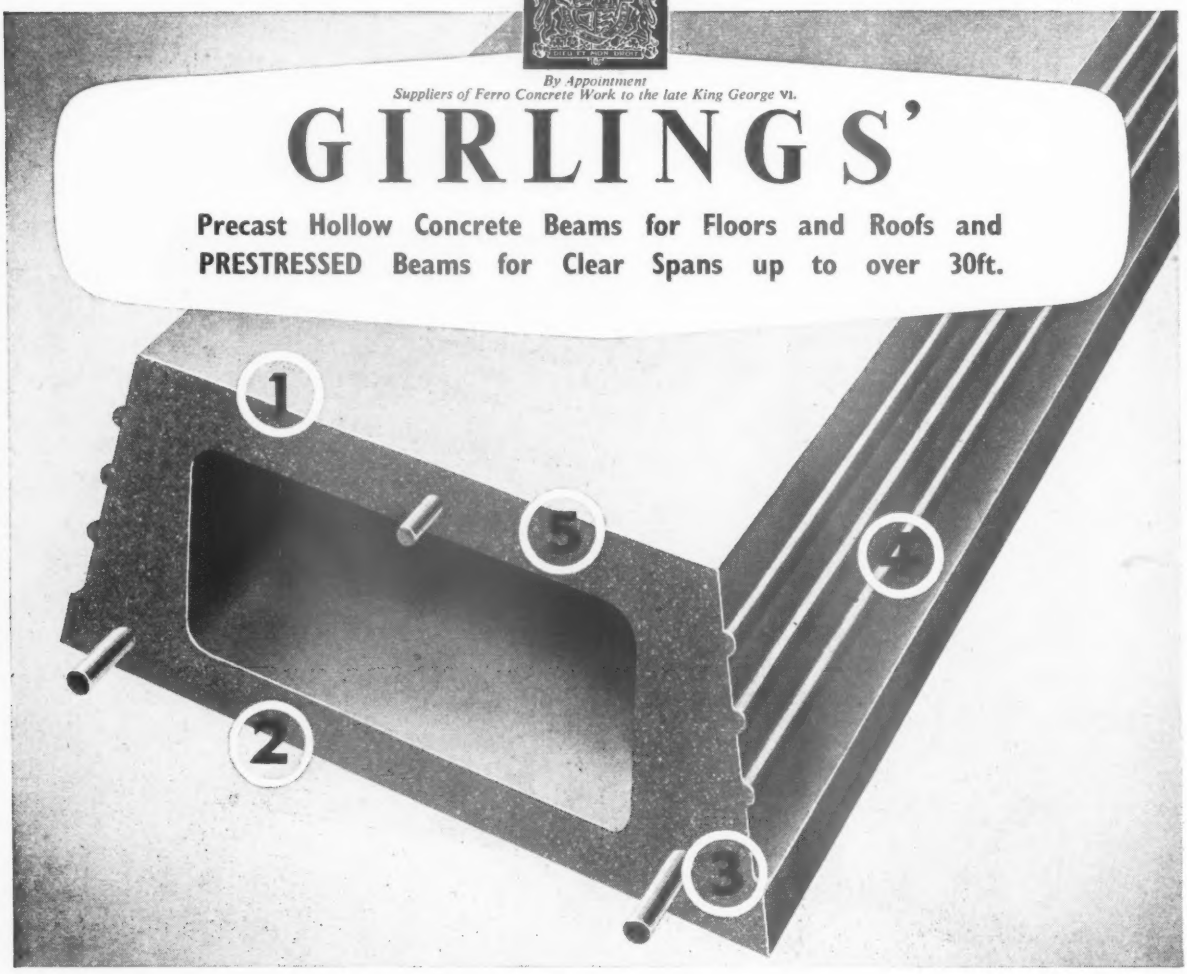
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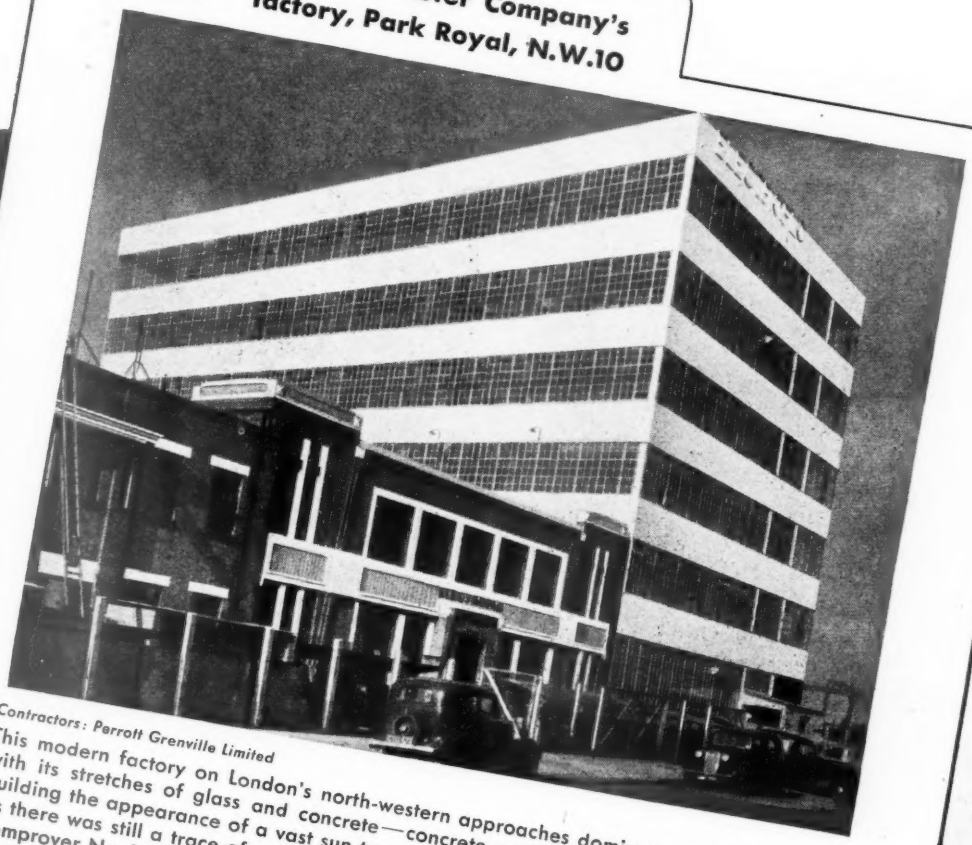
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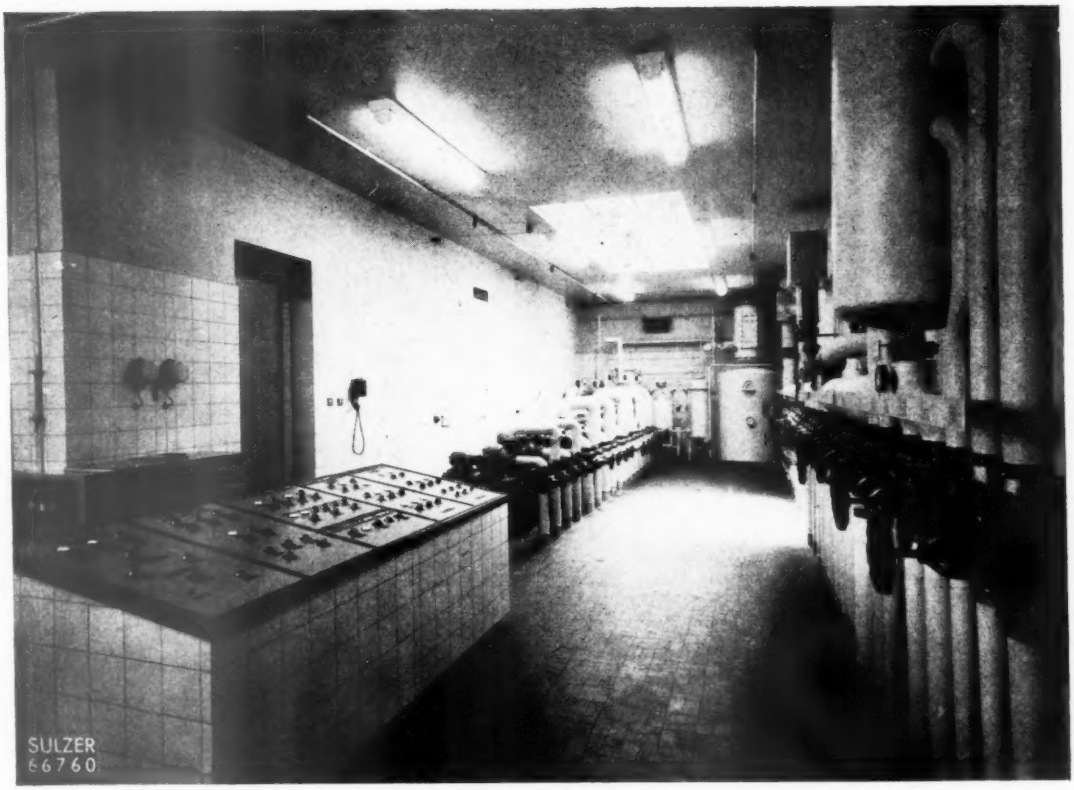
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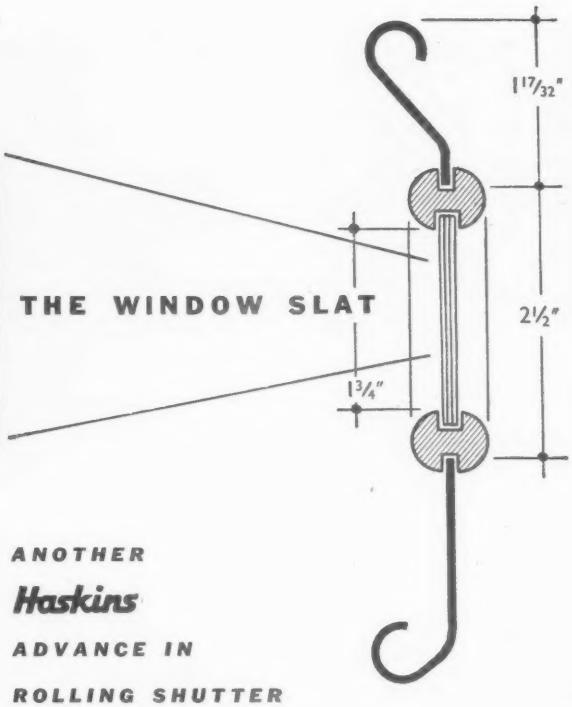
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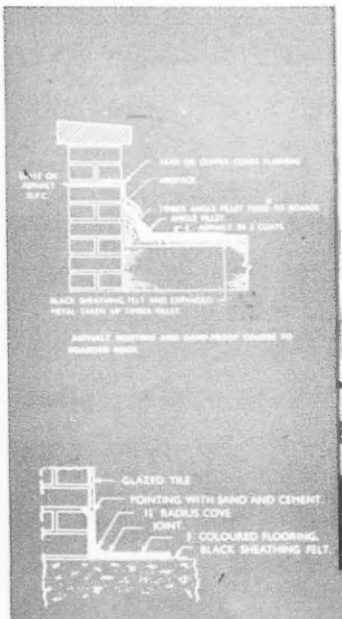
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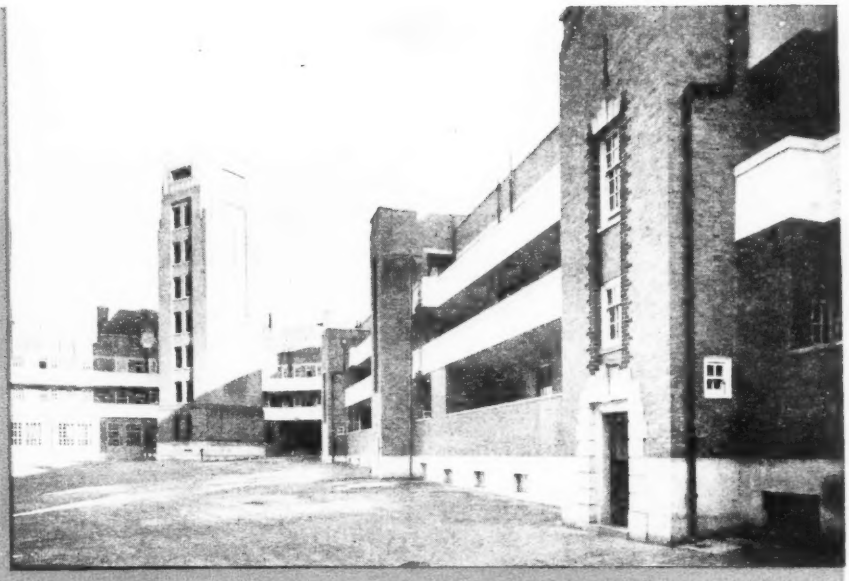
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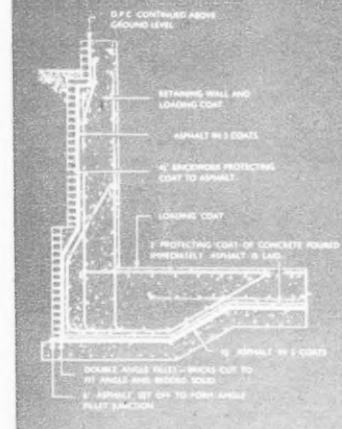
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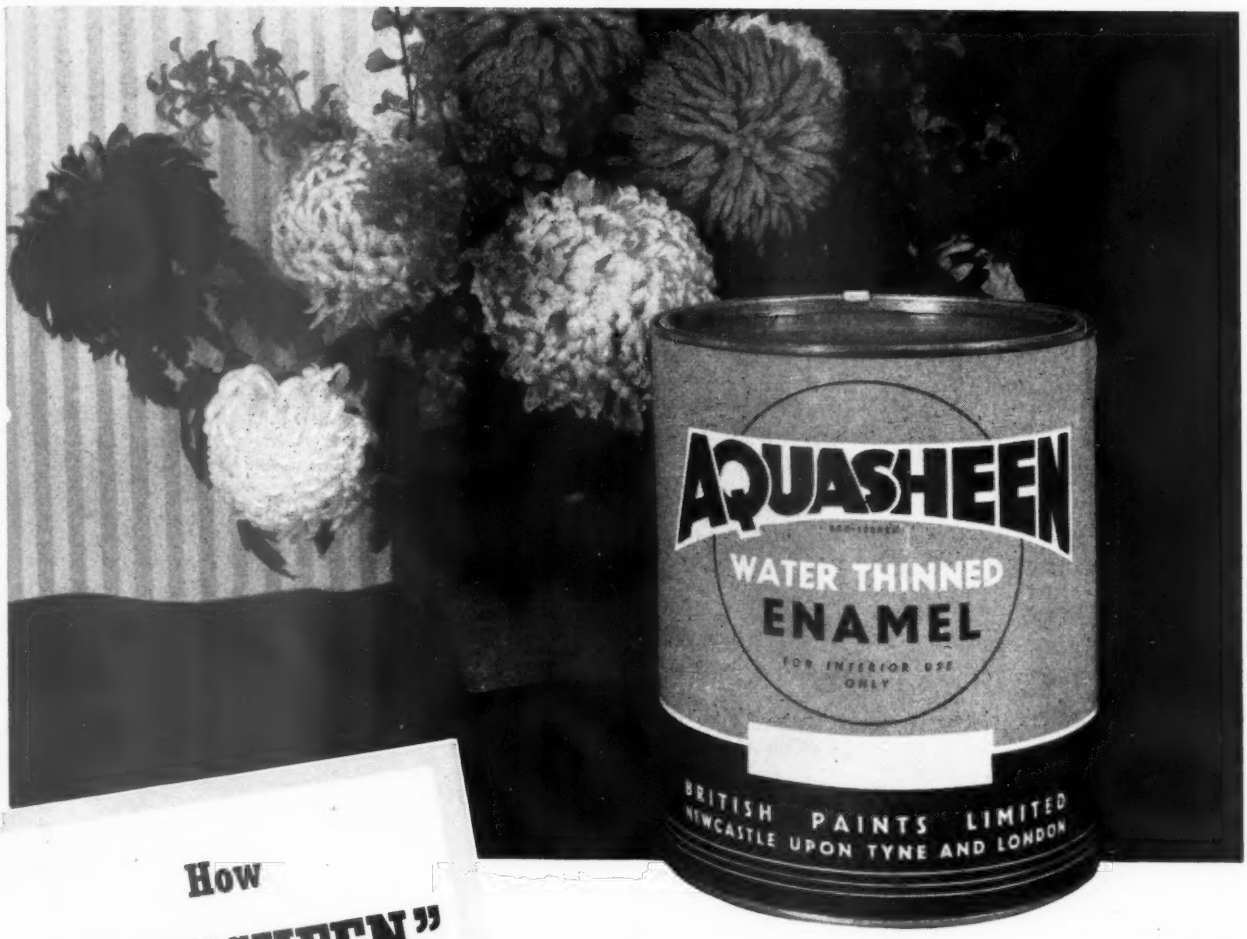
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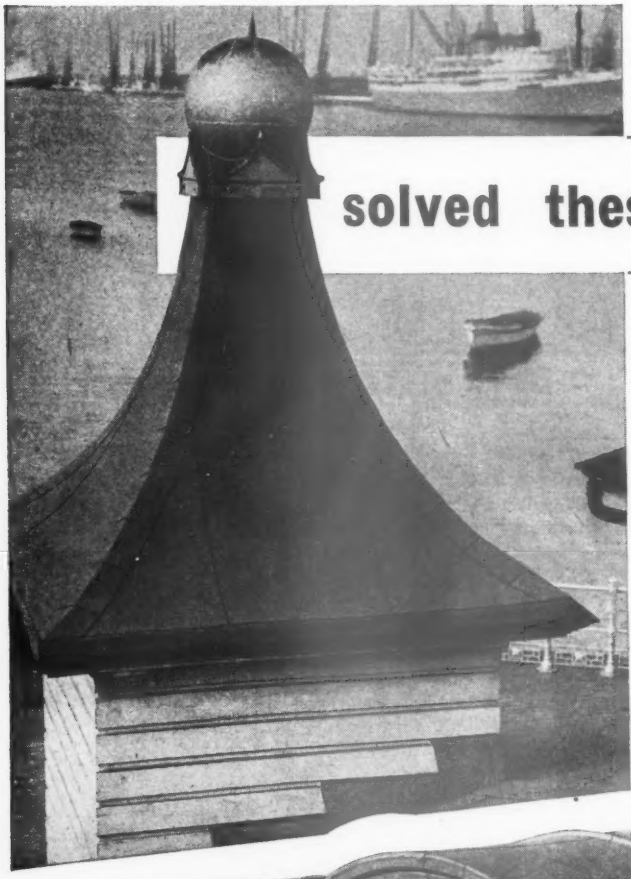
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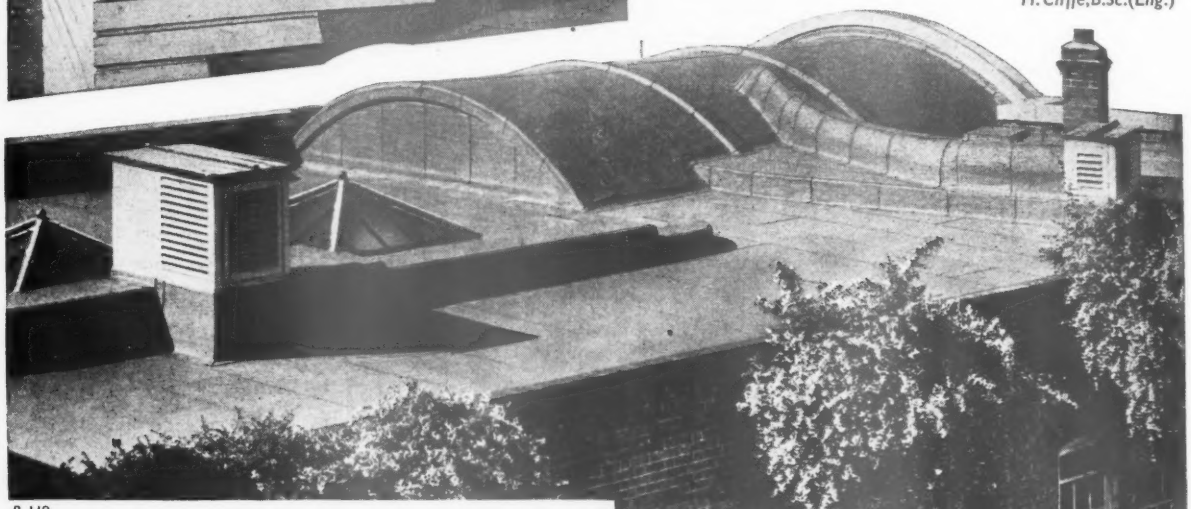
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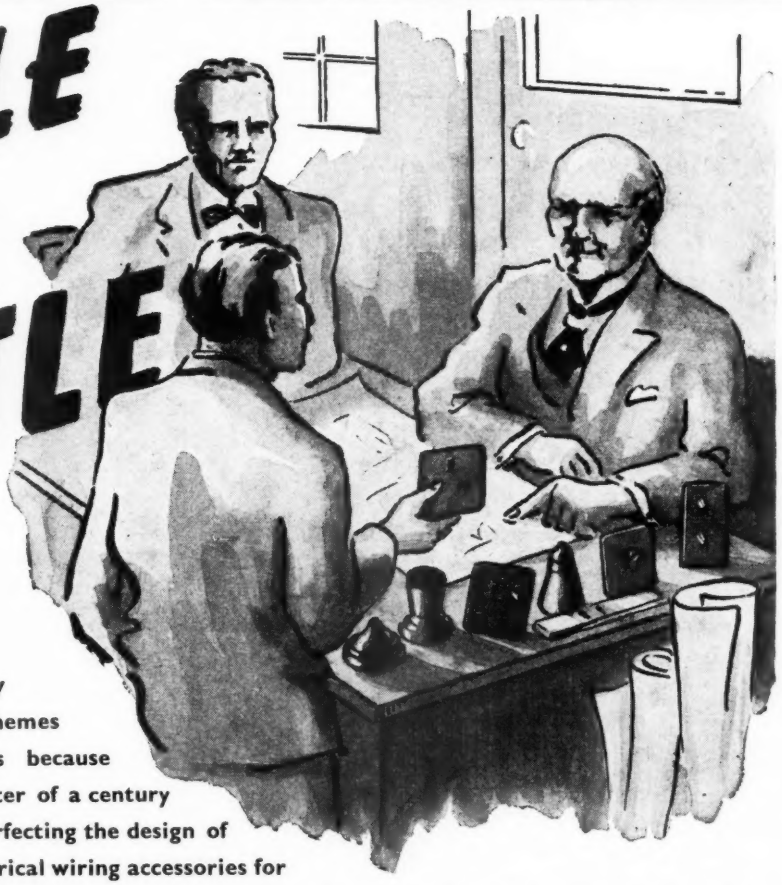
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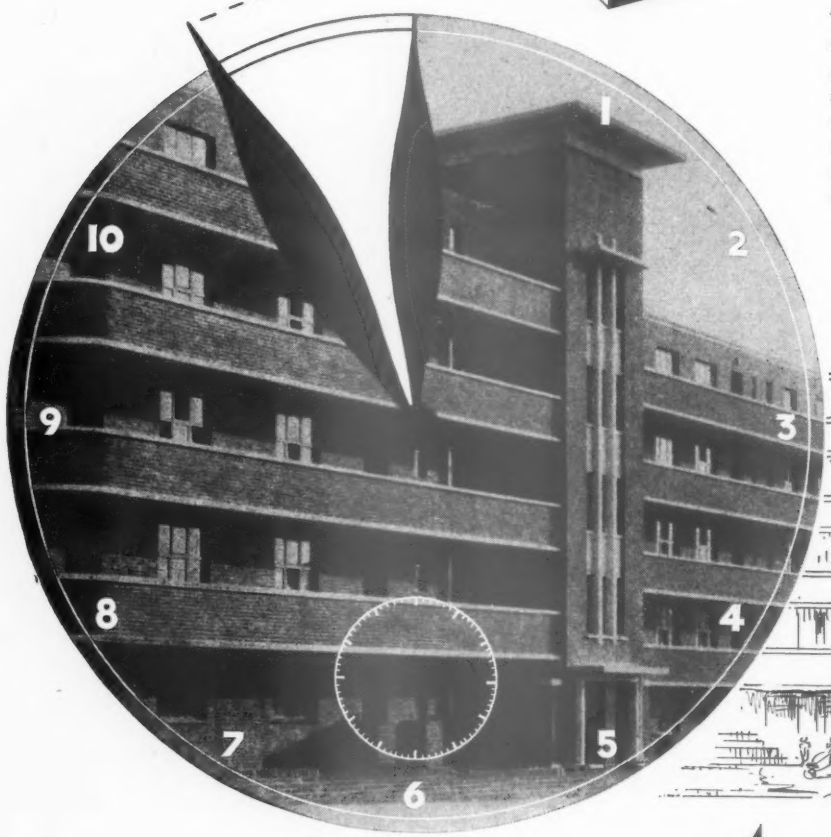
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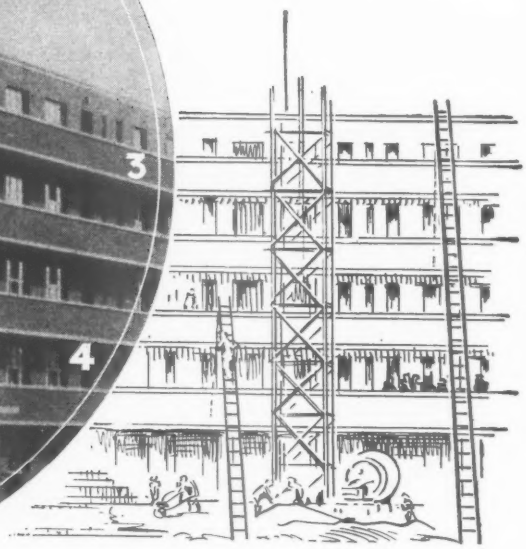
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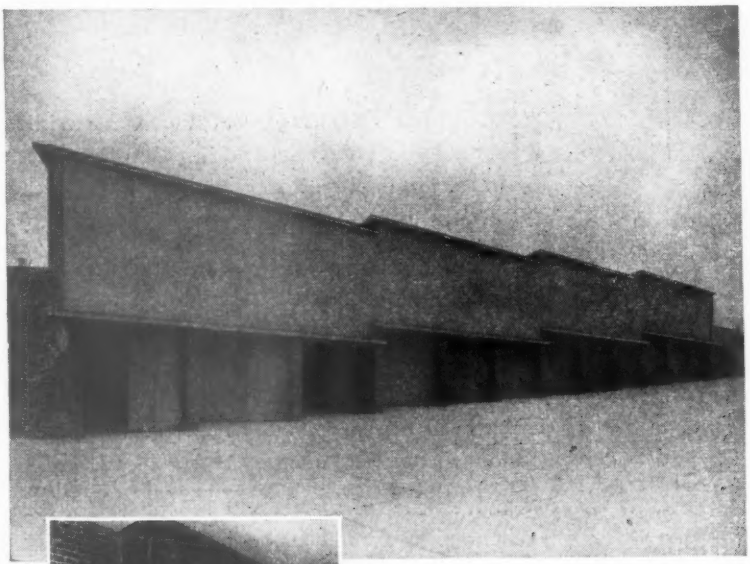
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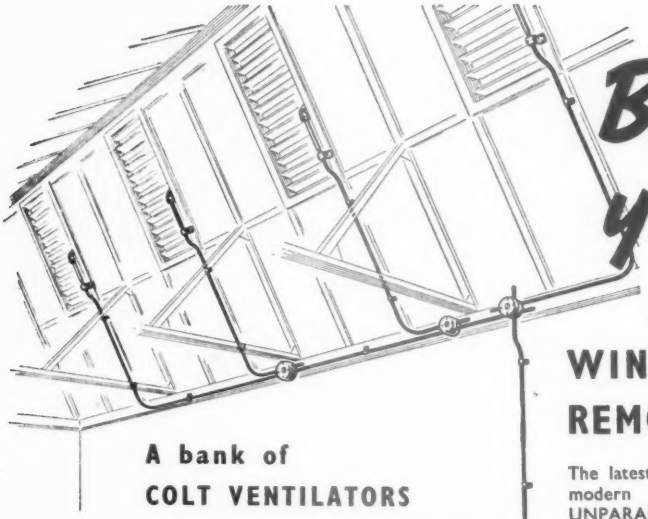
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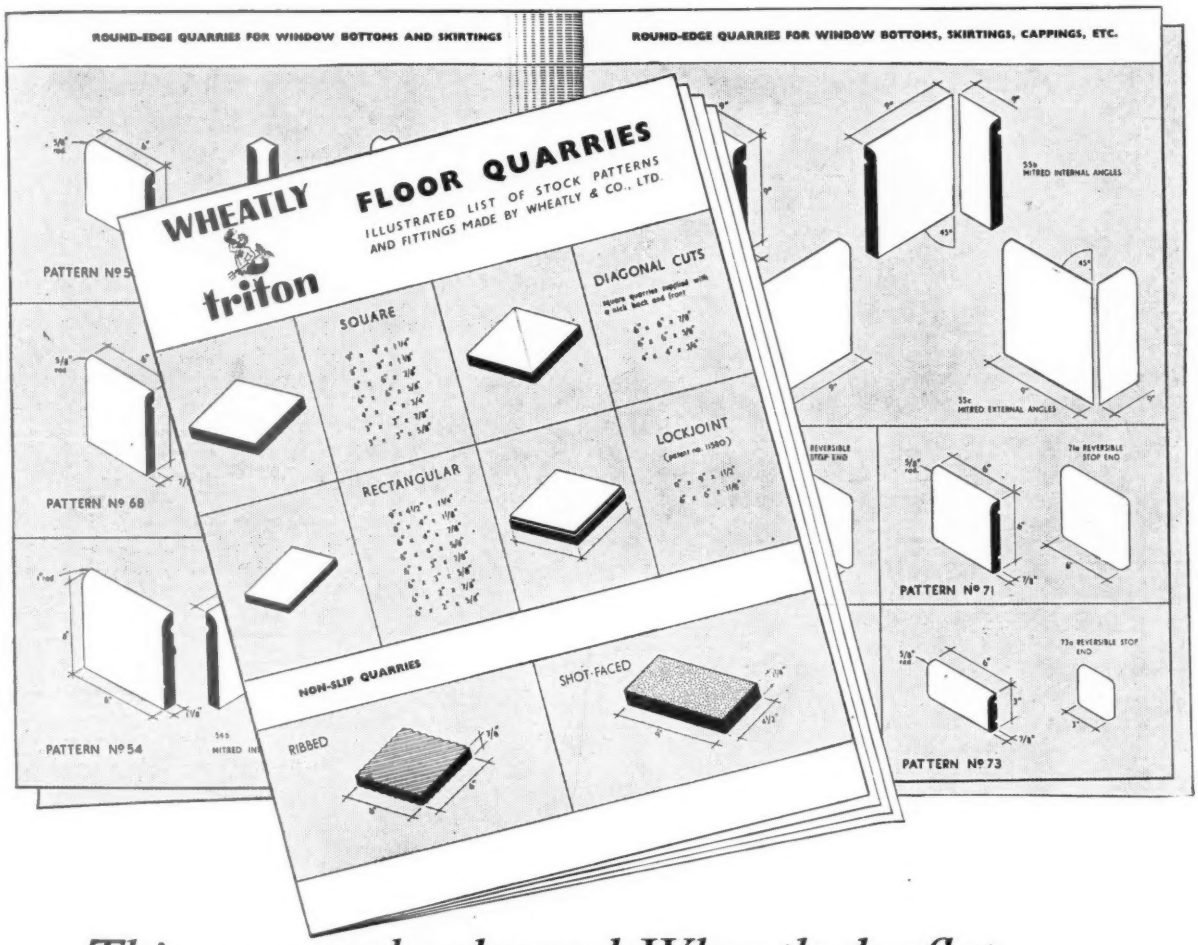
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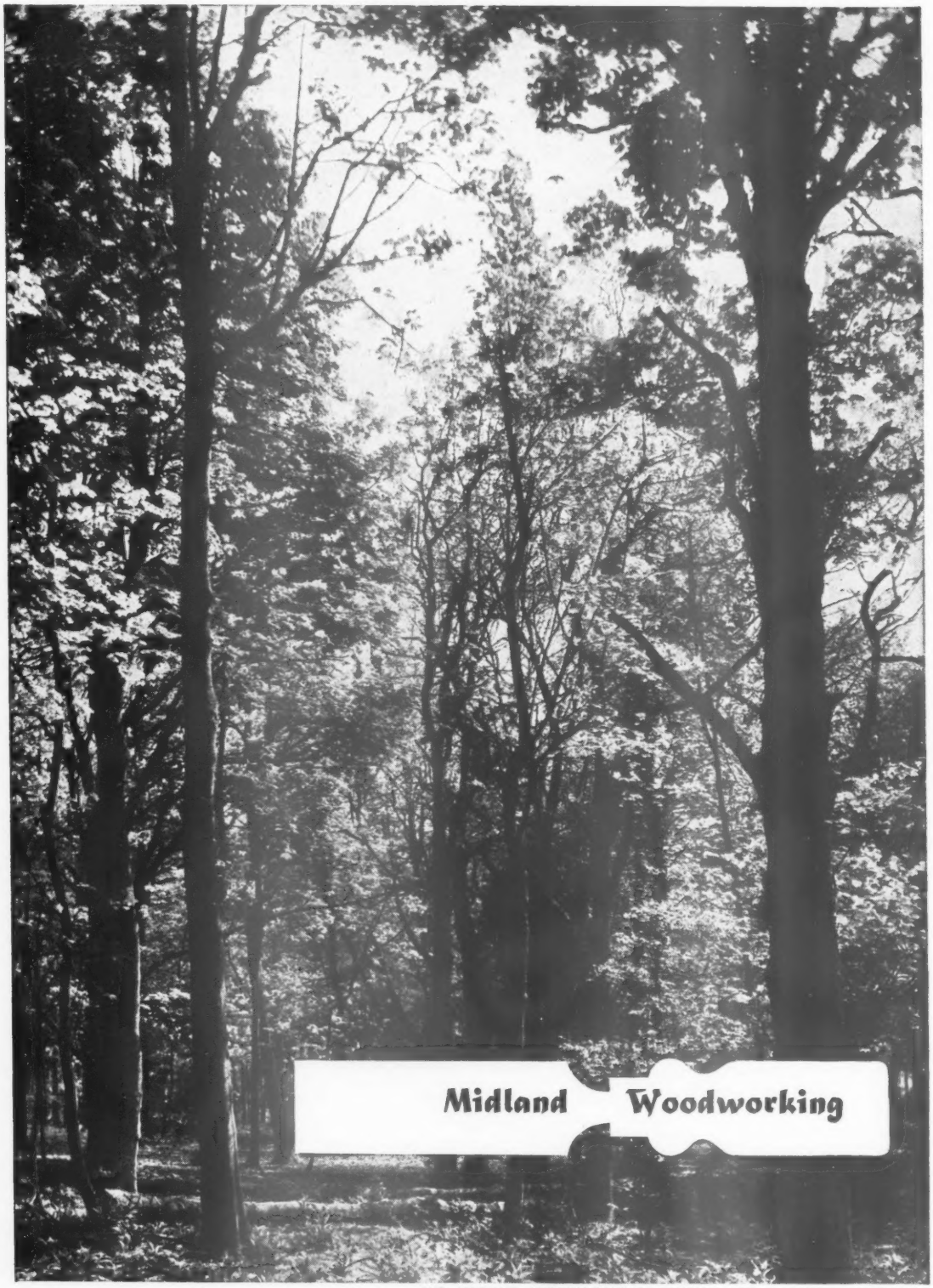
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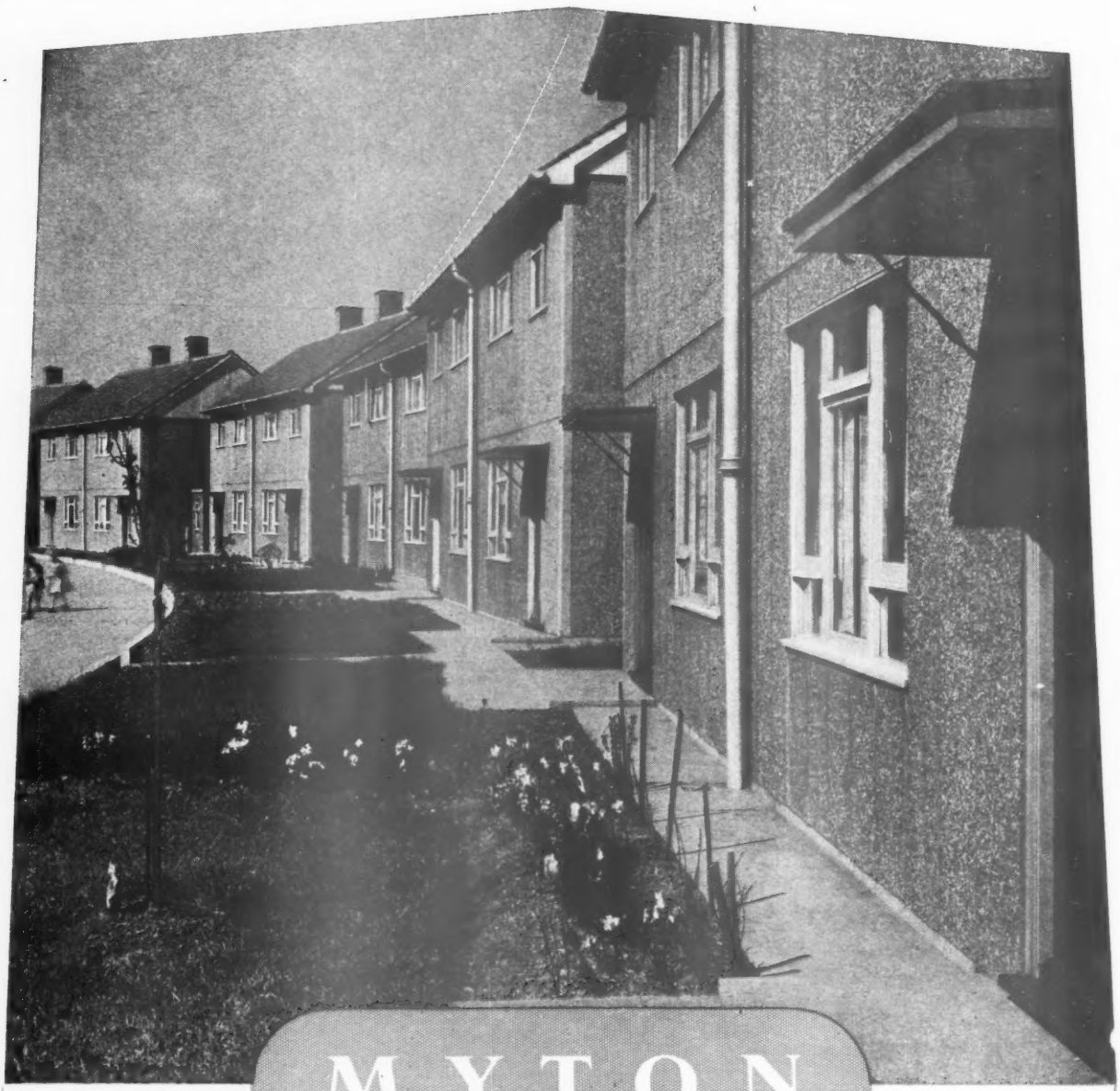
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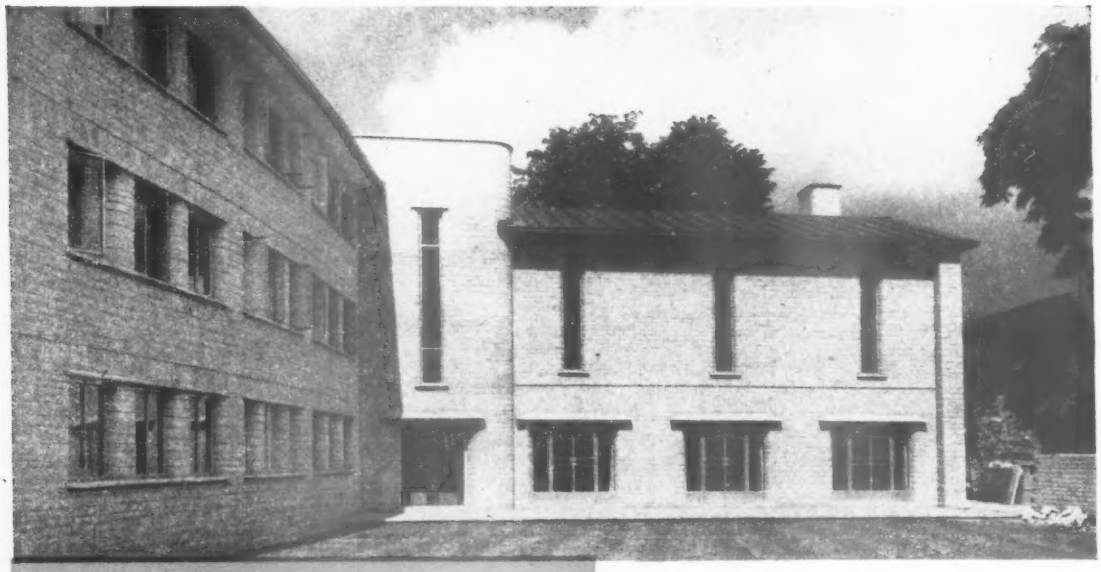
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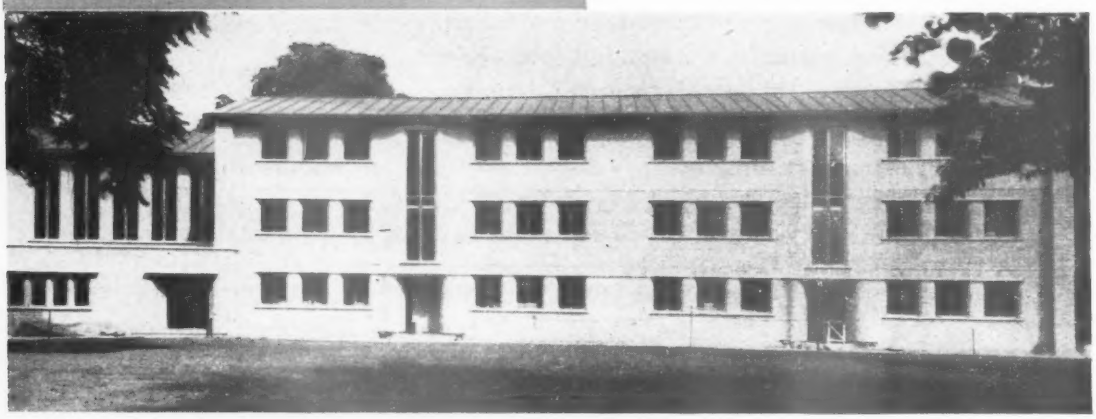
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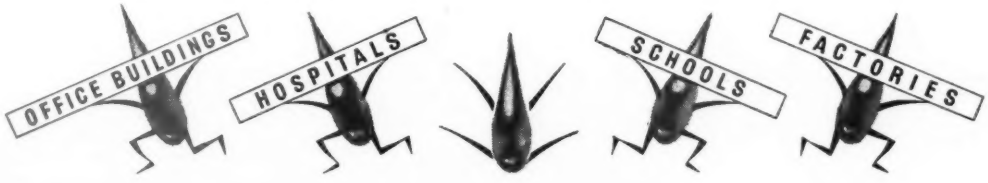
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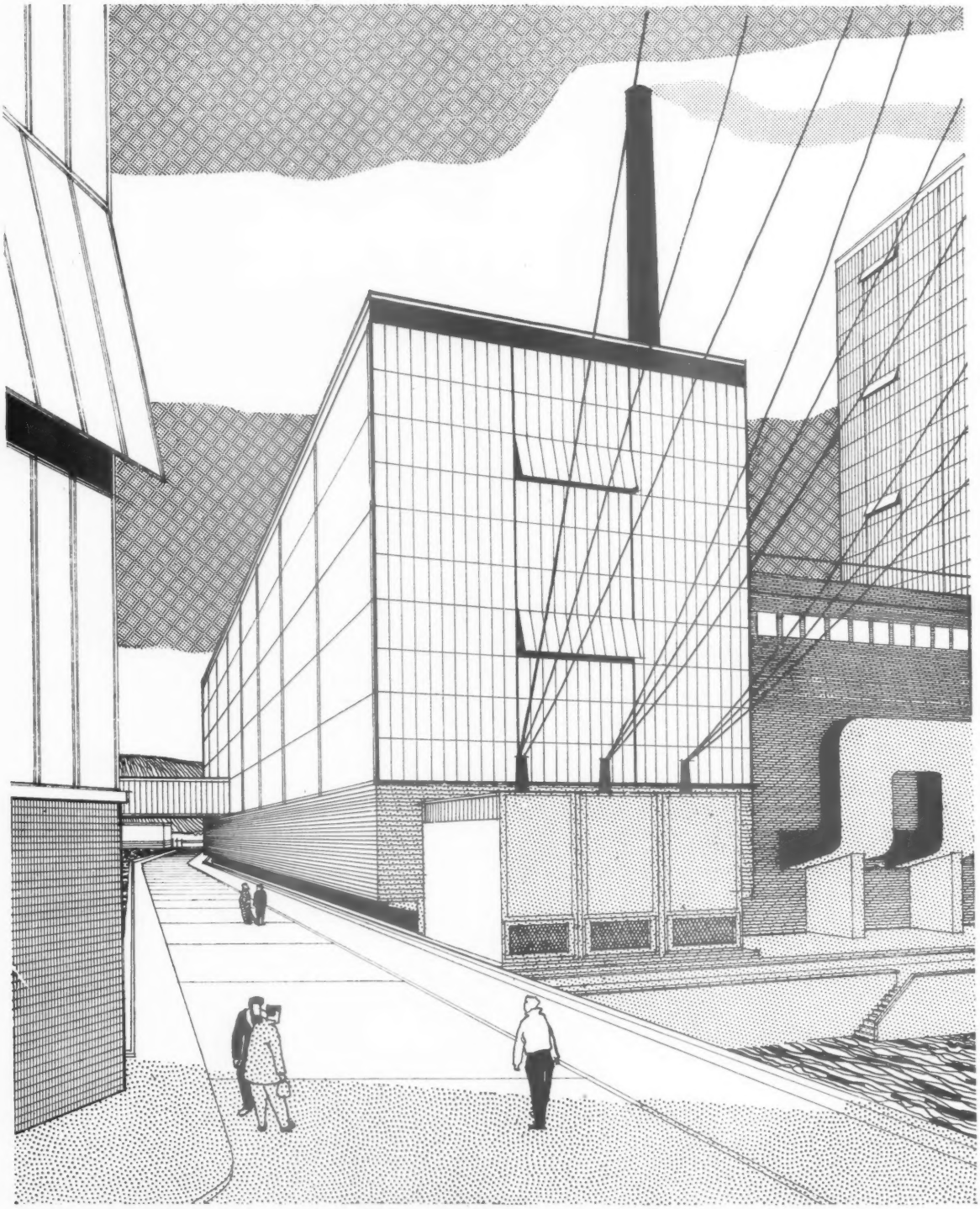
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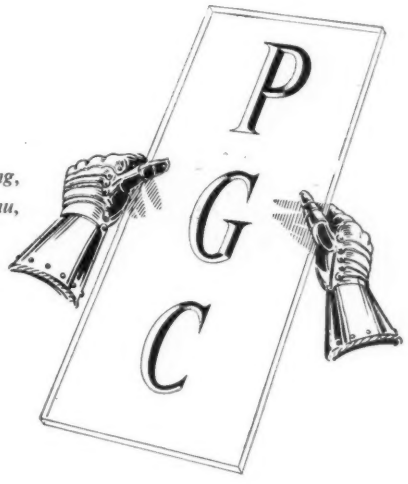
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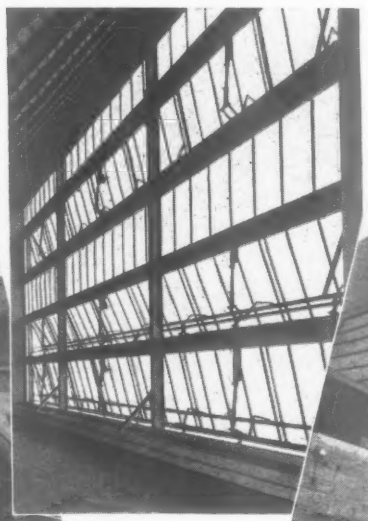
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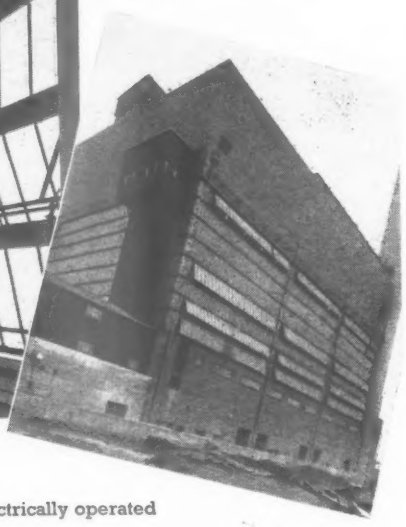
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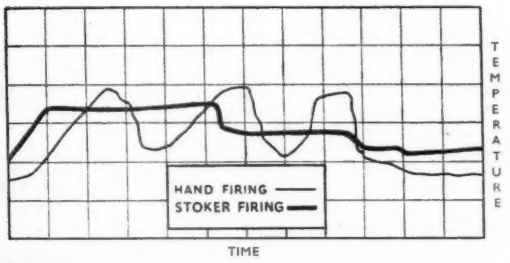
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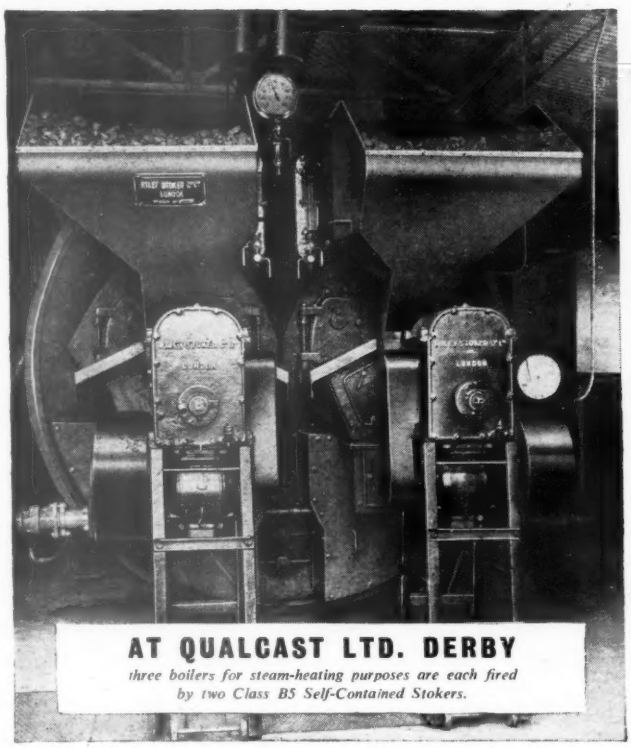
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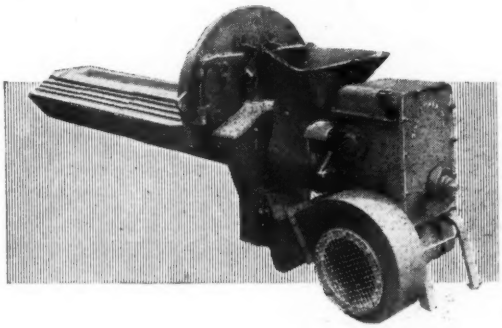
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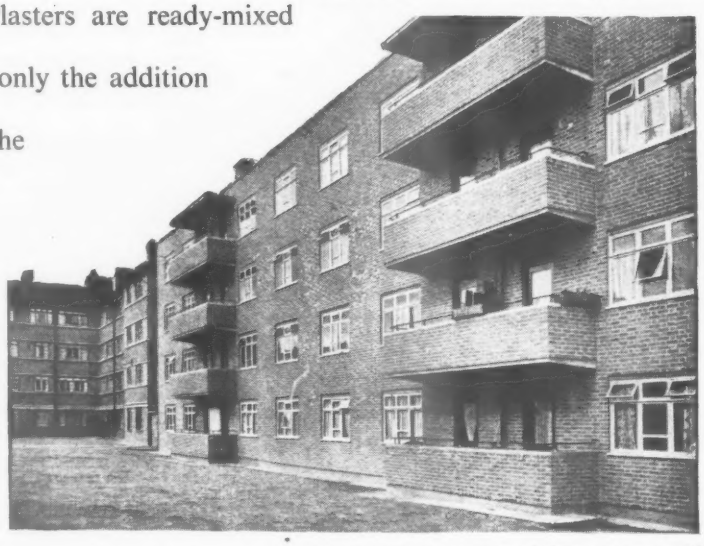
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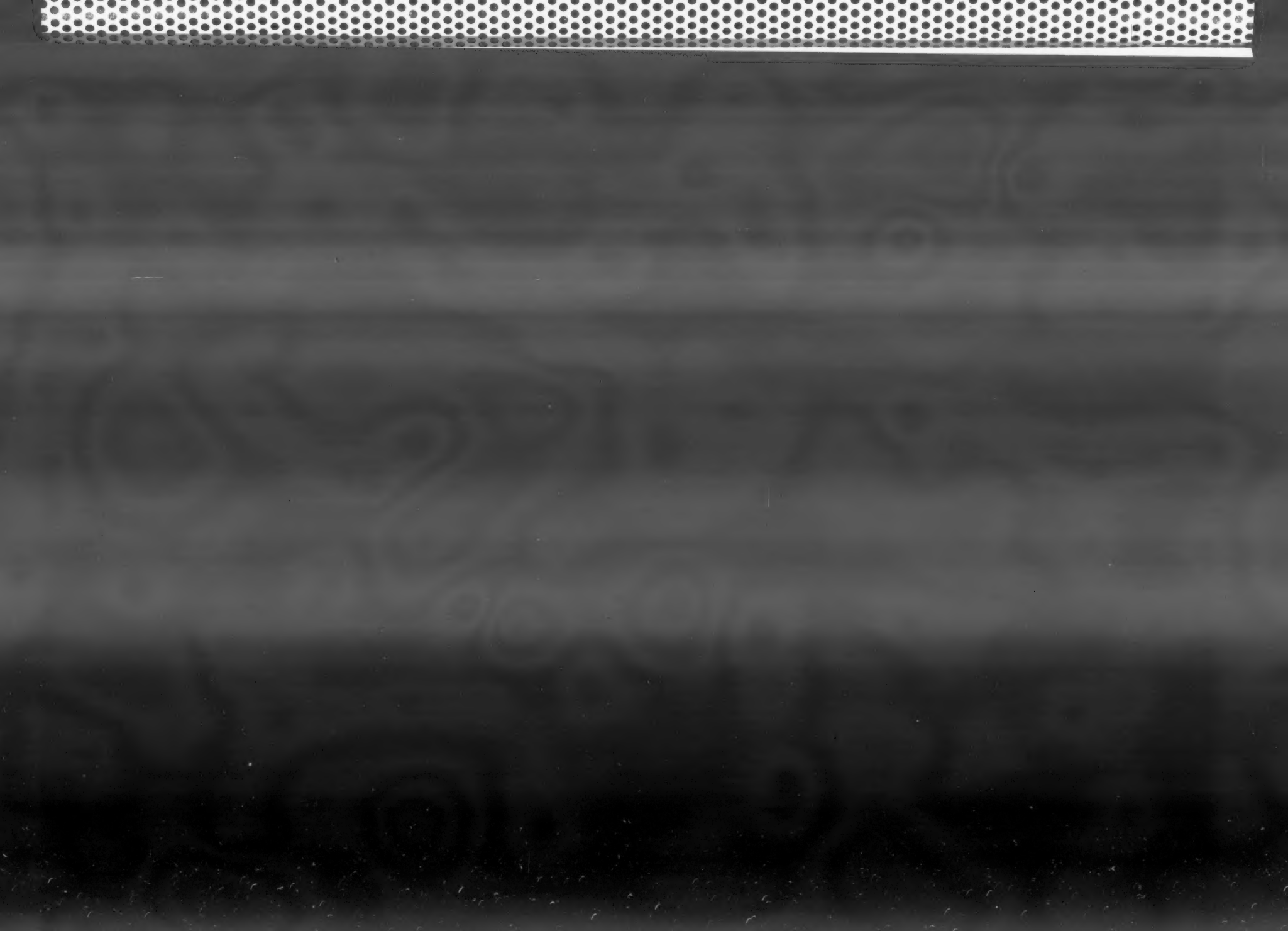


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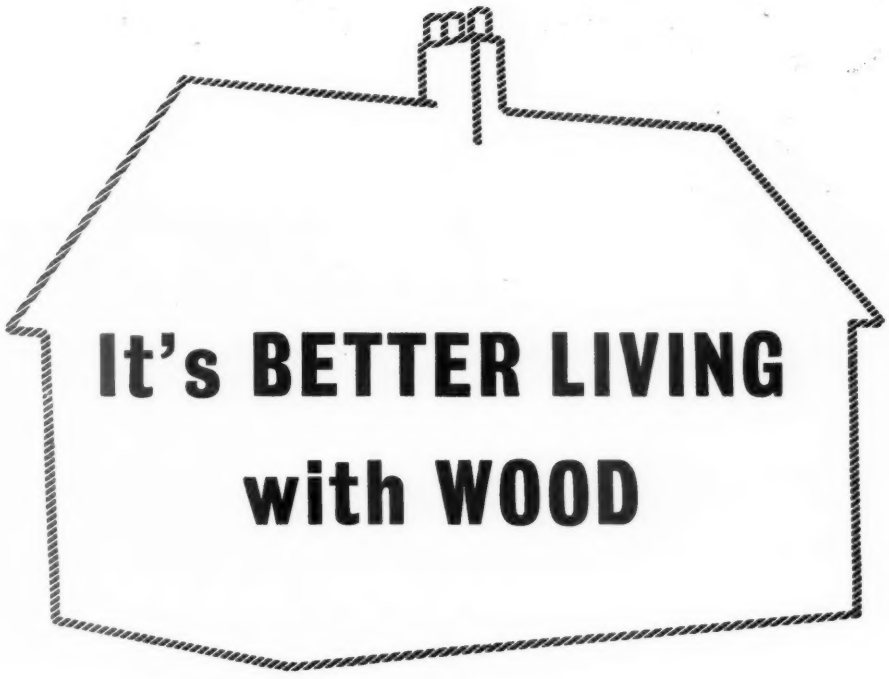
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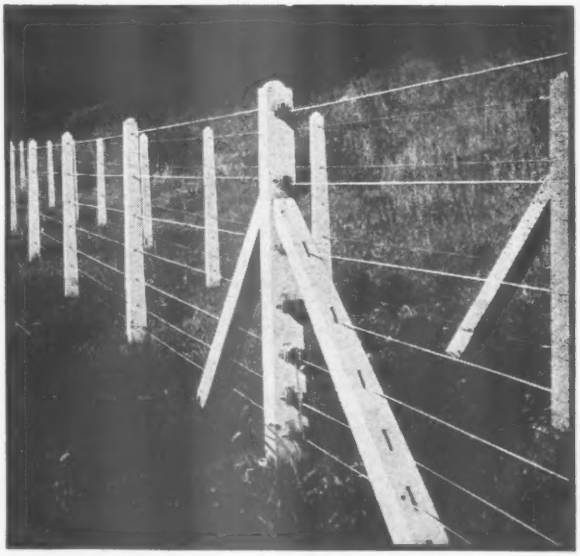
FENCE POSTS

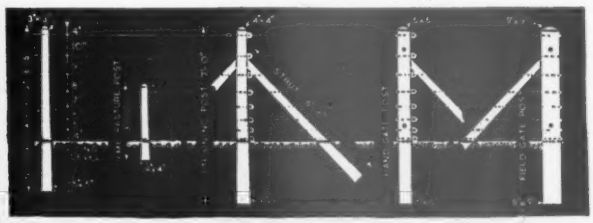
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9′ 0″ centres is normal practice for these posts but, with droppers in use, centres may be safely extended to 24′ 0″. Gate Posts are prepared to instructions and all posts can be holed for barbed wire outriggers to order.

Description	Size	Weight (each)
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Intermediate Strainer ..	ditto	175 lbs.
Angle Strainer	ditto	175 lbs.
Hand Gate Post	6″ × 6″ × 7′ 0″	250 lbs.
Field Gate Post	9″ × 9″ × 7′ 0″	560 lbs.
Lamb Pasture Post	4″ × 4″ × 3″ × 3″ × 3′ 0	36 lbs.
Strut	5″ × 5″ × 3″ × 3″ × 6′ 6″	100 lbs.

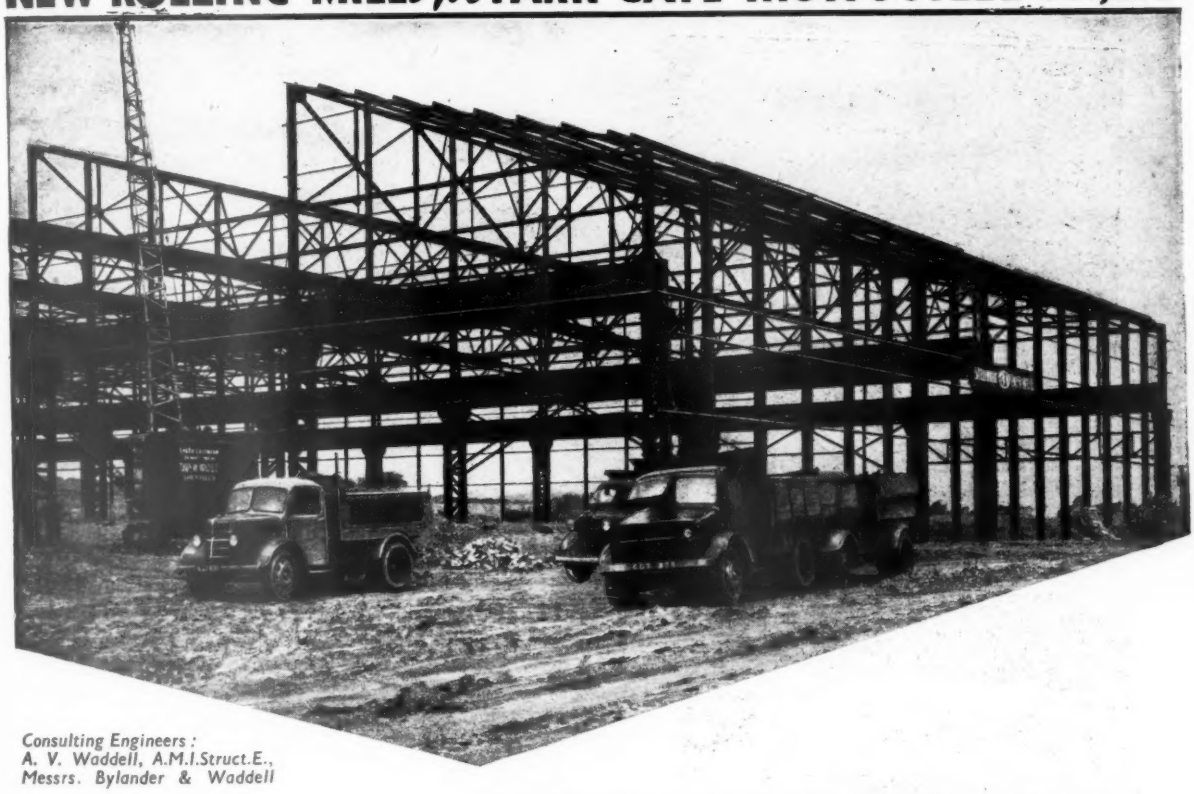
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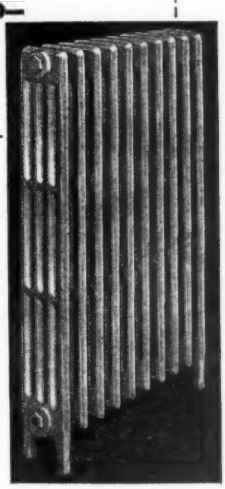
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Once again, radiators by Crane...

Without doubt, one of the outstanding features of the Churchill Gardens Estate, now under construction at Pimlico, is the heating system. The medium used for conveying heat—derived from exhaust steam at Battersea Power Station—is hot water. This is pumped through 12-inch bore insulated steel mains under the River Thames from the Power Station to the Estate. To help achieve an efficiently controlled central heating system, Crane have already supplied over 1,750 cast iron radiators and a large number of concealed pattern radiator valves. Important contracts like this draw added attention to Crane's fine reputation as a leading manufacturer of heating equipment.

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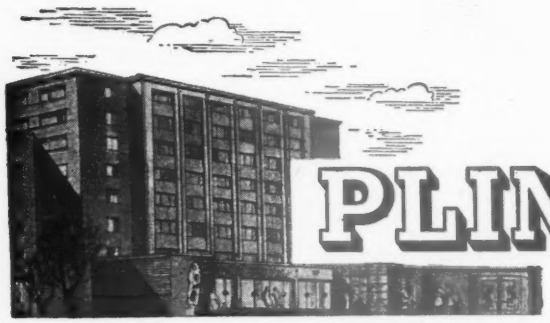
At the Churchill Gardens Estate, Crane 2 and 4-column Pall Mall cast iron radiators are fitted throughout the 4, 7 and 9-storey blocks, already finished and occupied. These radiators, graceful yet strong, are also available in 6 column design—in four different heights.

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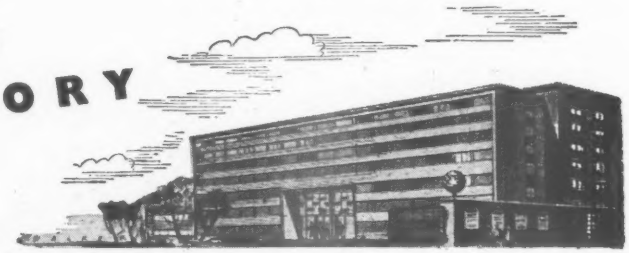
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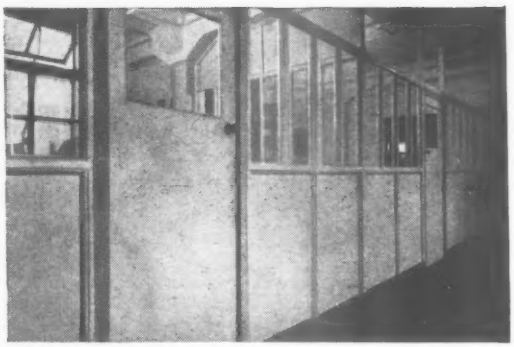
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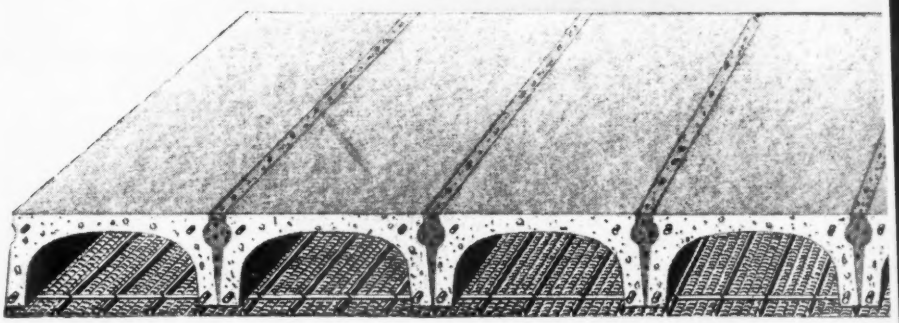
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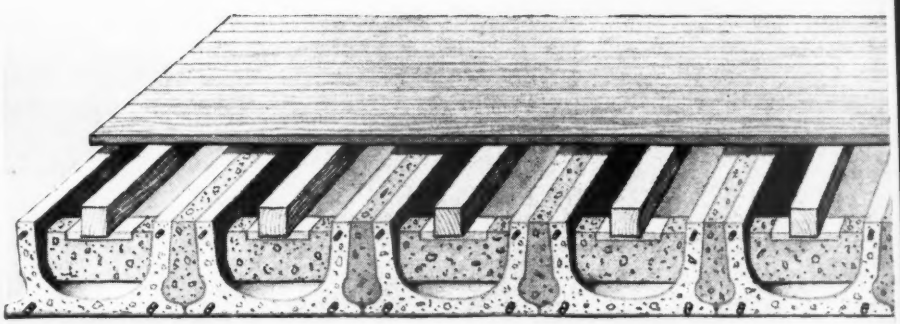
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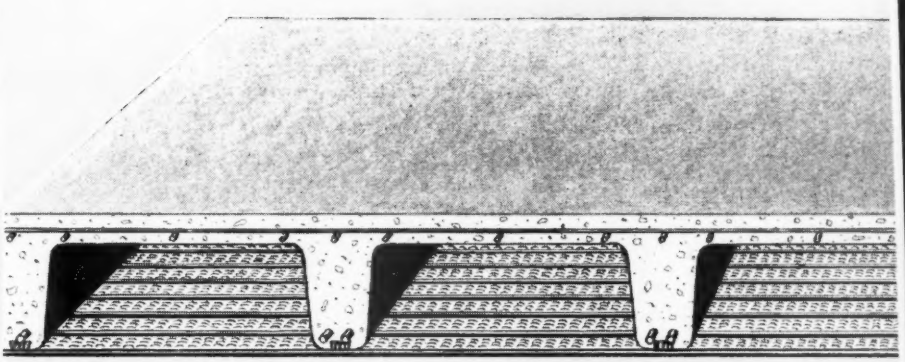
Precast Type 1 The type 1 Truscon Precast Floor spans up to 18′ 0″. Any floor or ceiling finishes can be attached, and in conjunction with a suspended or semi-suspended ceiling, a high degree of sound resistance is obtained.



Precast Type 2 The type 2 (or the semi-suspended tread type) Precast Truscon floor combines the fire resisting qualities of a reinforced concrete floor with the resilience of the timber floor, provides good sound resistance, and accommodation for electric light conduits and domestic services.



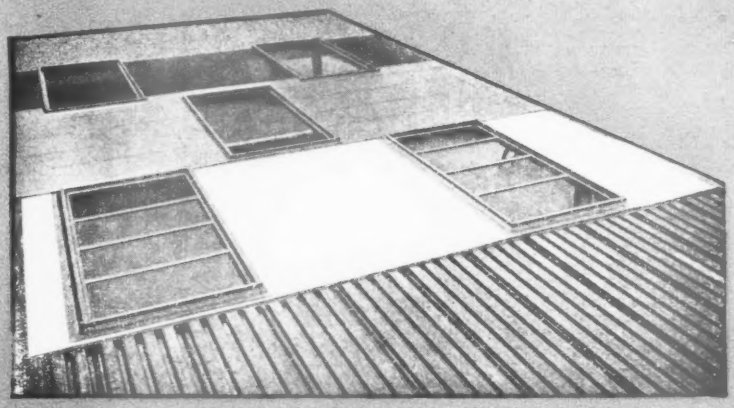
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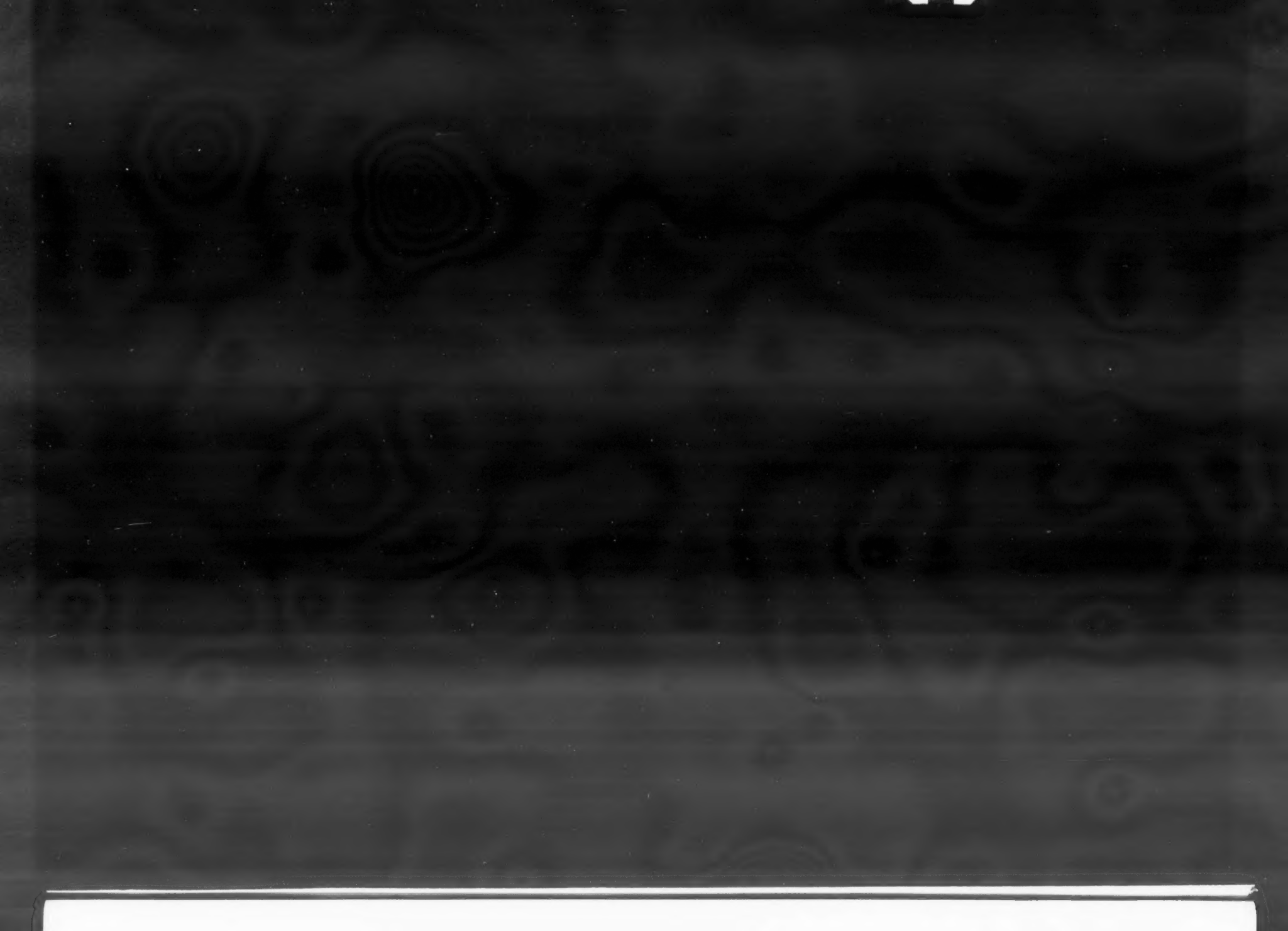
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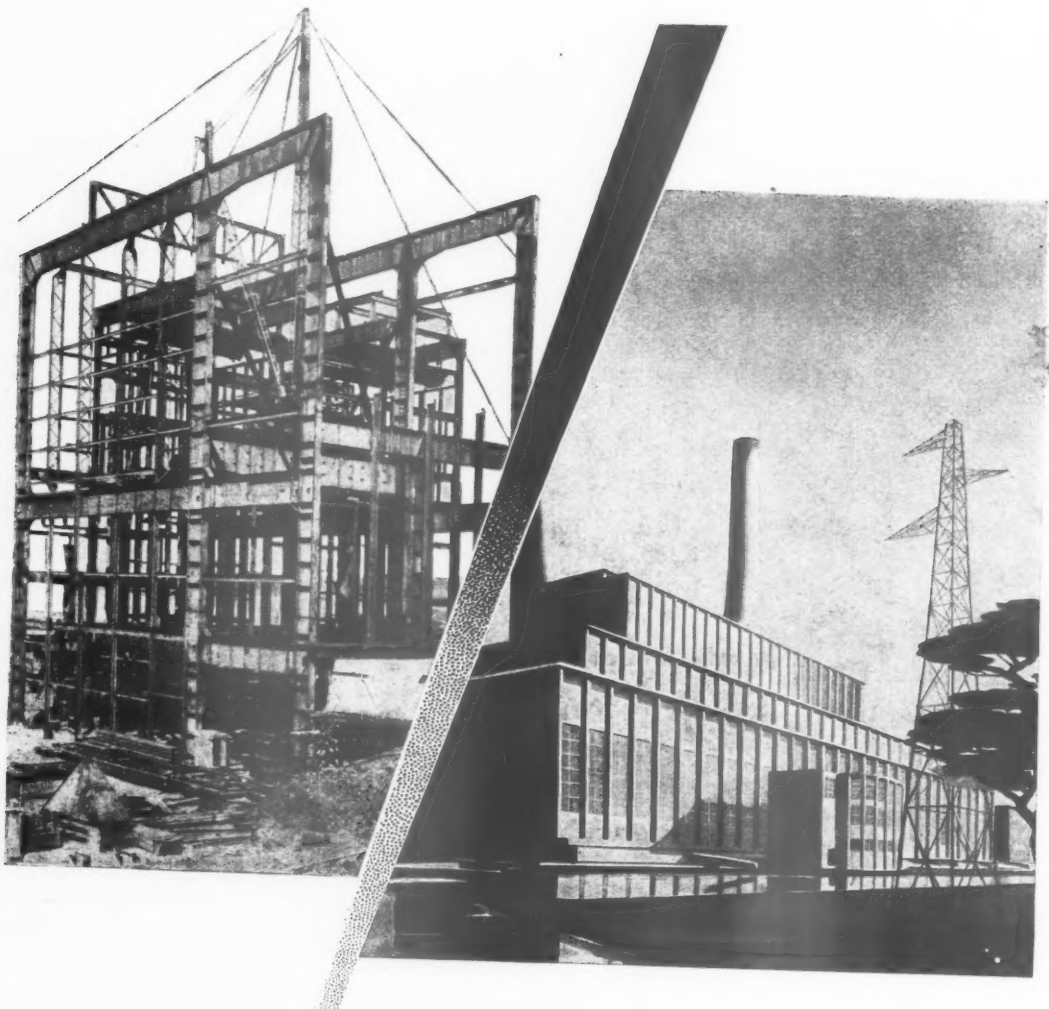
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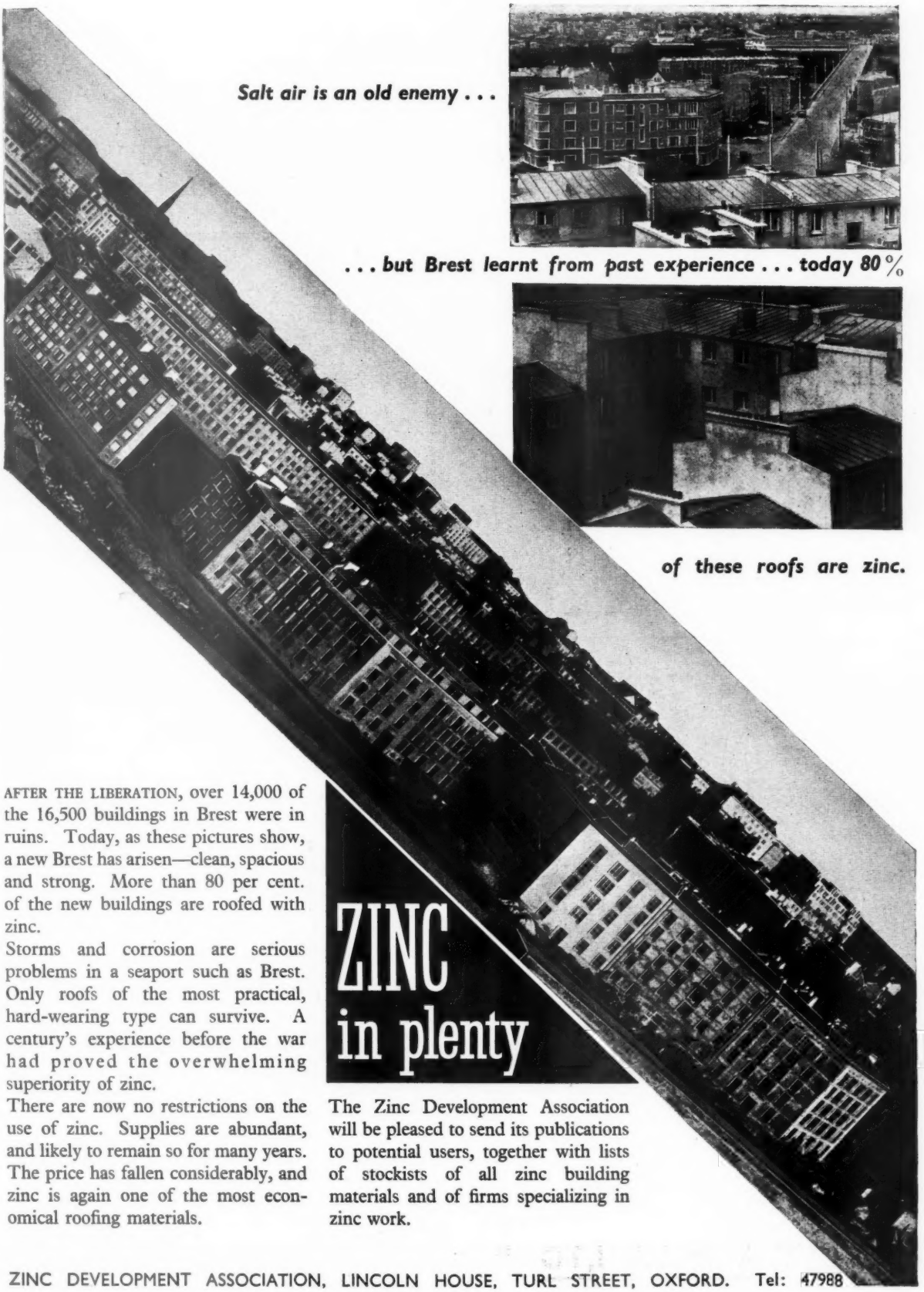
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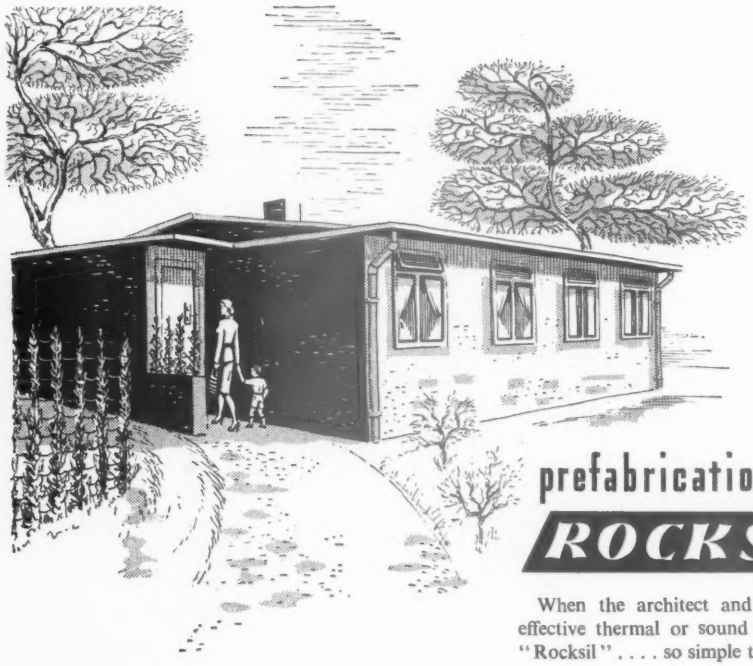
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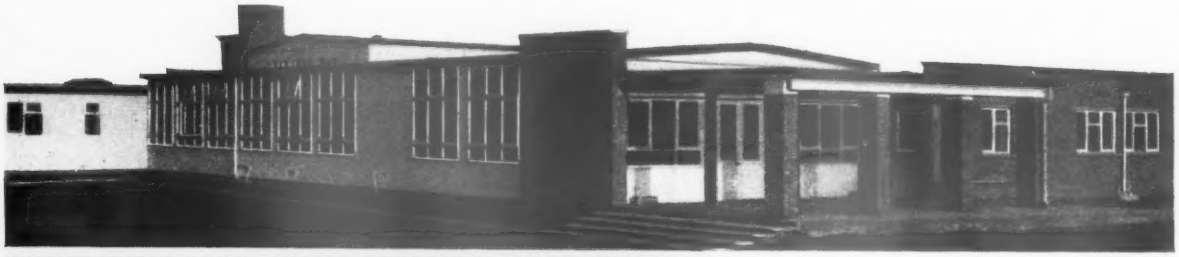
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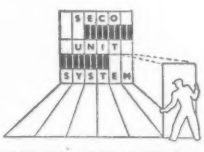
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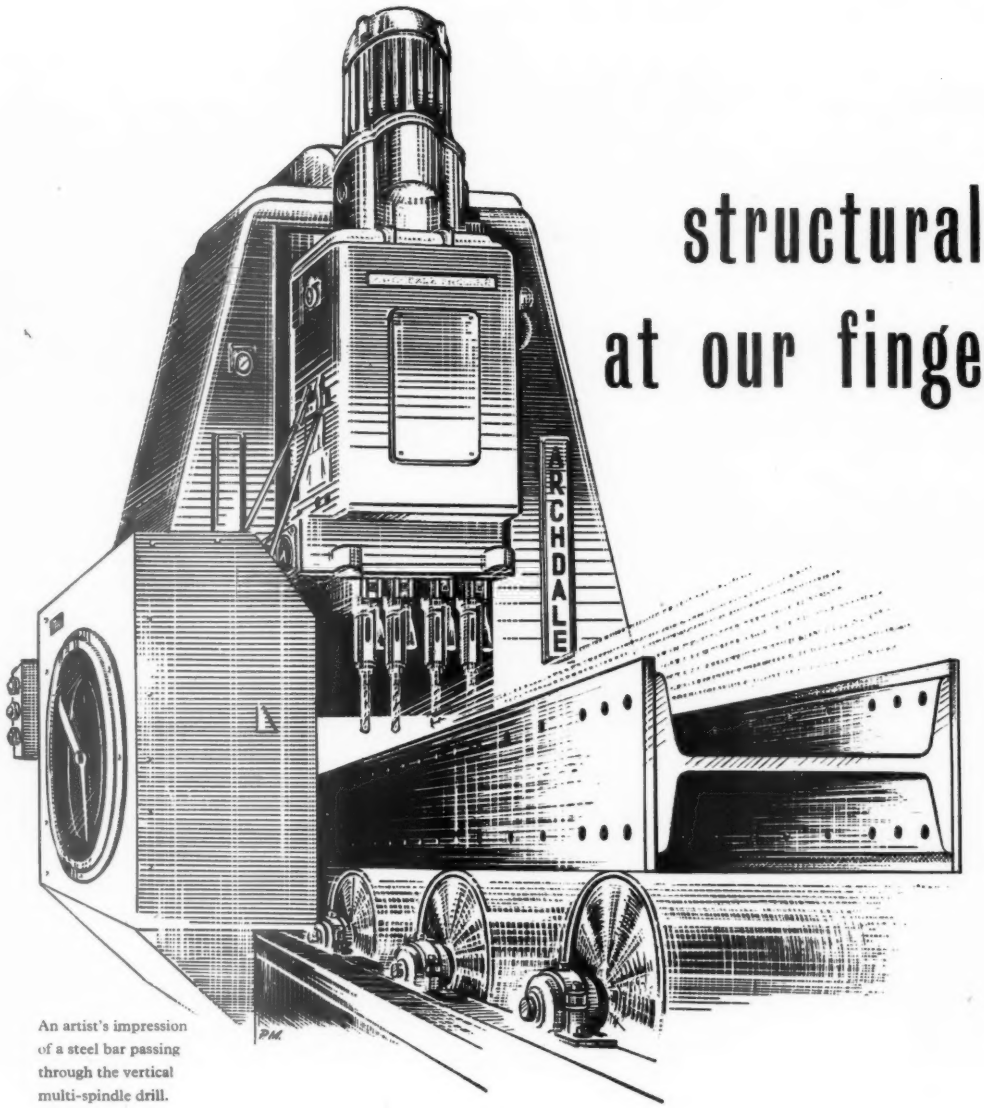
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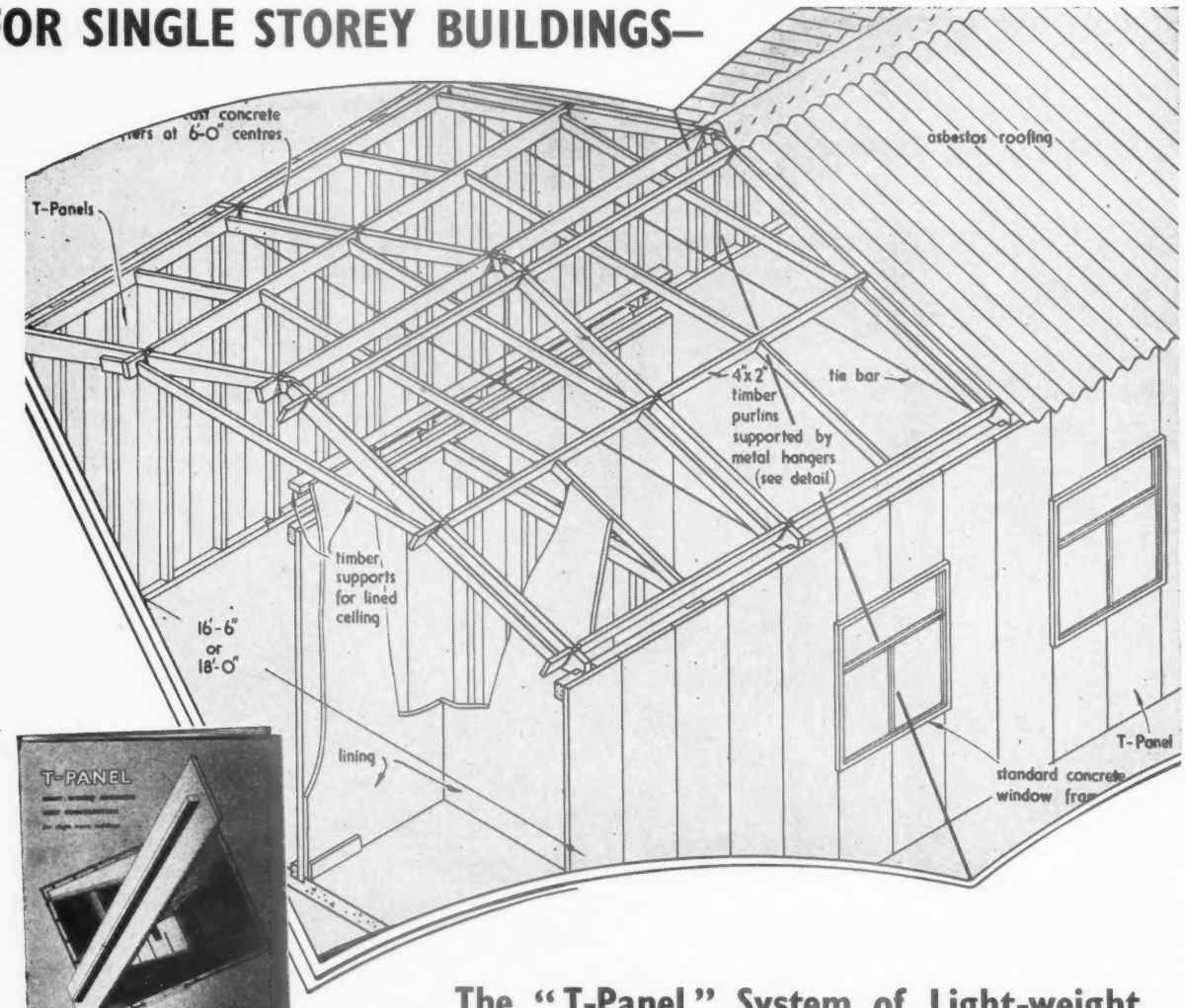
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School floors

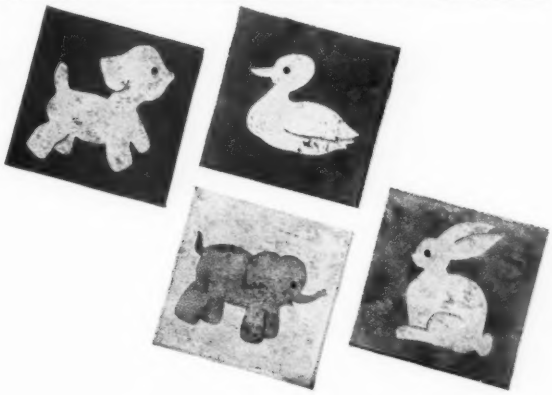
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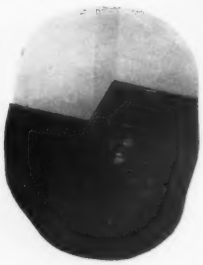


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RSA BICENTENARY

The bicentenary celebrations of the RSA—referred to in this week's leader—got off to a colourful start last week when, beneath the glare of arc lamps, the whirr and click of cameras and the subdued crackle of hand-inscribed parchment, addresses of congratulation were presented by robed and gowned representatives of associated societies and organizations . . . a bag of all-sorts and including the Royal Drawing Society and the Royal Society.

*

After Lord Samuel had given a short and graceful address . . . "beware," he said, "of lowering buckets into empty wells and of growing old in drawing nothing up" . . . the company adjourned for tea and to inspect (oh dear! oh dear!) the presents. As an exhibition of penmanship, typography or printing you could hardly have found a more dispiriting collection. Two or three were good, including one from Sweden; one or two more were quietly inoffensive; the next were, to be frank, terrible . . . a melancholy array of well-meant and wasted effort. A great deal of time, money and hard thought must go into these—to what purpose?

*

They can only be tucked away and never seen again. They do nobody any good—except to cause a slight and temporary boom in the making of tooled leather containers—and when, as here, they are not even well written, the whole business seems unusually futile. Surely this is just the occasion for a bit of wise art-patronage—if, say, the Royal College of Surgeons is happy to present a decent address of congratulation, would it not be better and no more expensive to present instead an inkwell or a pair of elegant door handles? Only three organizations—the RCA, the RDI's and the SIA thought of presenting a specially-designed object rather than a pompous paper. The RCA's gift—an exquisitely designed inlaid ivory gavel, by Robert Goodden, was magnificent. The RDI's ceremonial dish—by Susie Cooper—was a good idea, but not really well enough done. The SIA's gift—an inscription on perspex by Milner Gray—was a brave attempt to be up to date, but even here one might have hoped for something more useful.

*

Why could not the RIBA have given, say, one of the Lutyens sketches, of which it holds more than it needs? And from the Royal Academy there was not even a tiny drawing. What a waste of opportunity. ASTRAGAL could not help but sense above the tinkle of teacups and the cooing compliments a faint feeling of relief among the guests that it was not they who were the recipients of this paper Treasury—that almost imperceptible self-congratulatory expression that wedding guests wear when they finger the seventh early-morning tea set for which, thank heaven, they have not got to find room.

*

Well, like all the rest of you, ASTRAGAL wishes the RSA another happy and active 200 years, but hope its next celebration will be more handsomely rewarded by its friends.

THE MODULOR AGAIN

Further perusal of the English edition of the Modulor has revealed one particularly interesting fact, among many others, and that is this. Probably because the Charley figure is based on the height of a handsome six-foot English policeman (it's true—Corb. says so), practical applications of the Modulor work much better in inches than they do in metric sizes.

*

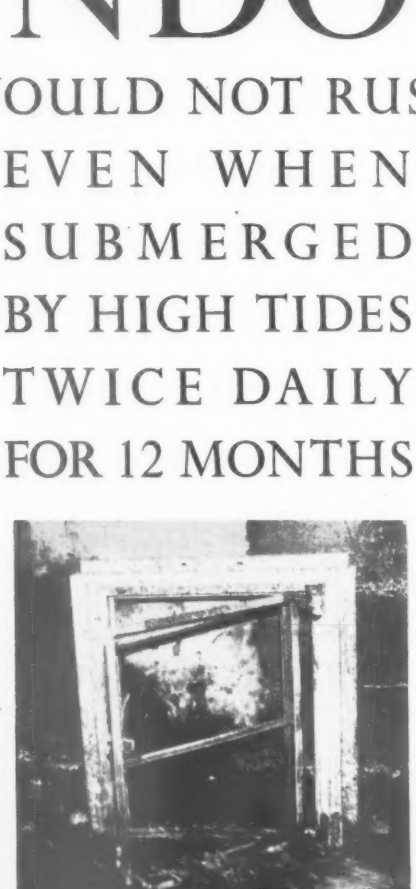
The exact Modulor sizes all come to very awkward fractions of centimetres, and of inches, but when they are approximated for everyday purposes to the nearest millimetre or nearest half-inch, then, though the metric figures don't always add up (*e.g.*, 330 plus 534 has to equal 863), the inch-approximations always work out perfectly. Good show, *vive l'Angleterre, Merci Chef* (or words to that effect).

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ONCE OVER ORSOVA

Wearing submarine goggles and carrying a fish-spearing gun, ASTRAGAL'S marine spy—he's been avoiding Ellerman Line depth charges after last week—dripped into the office yesterday with a last bulletin from the "Orsova," now happily *en route* for Naples. Although not completely finished before she left, the report confirms that the usual Orient/O'Rorke standards have been splendidly maintained and the architect and his colleagues have managed to ensure that the ship looks like a ship inside and out—not so easy as it sounds, and that it looks, moreover, like a ship for intelligent travellers—not so easy either. Particular congratulations are due to O'Rorke for neither getting "stuck" nor repeating himself—which might have been excusable after four such major commissions for the same client; to John Wright, for his work in the Tourist section; and to Humphrey Spender for his decorative panel—never without its knot of admiring onlookers.

*

Other noticeable features—outside this time—were the virtual disappearance of rivets, the derricks that house their cables within and the elfin little witch-hat smoke abatement device on top of the funnel. No reports yet on the success of this—both "Arcadia" and "Britannia" are trying alternative design solutions to the same almost insoluble problem—but the spy reports misgivings on visual grounds, due, he suspects, to small-boy memories of finding that his new steamer winds up through the funnel, which doesn't seem *right* somehow.

NOTE FOR PARLOUR-PAPERERS

Probably more use to your clients than to you (supposing you have any clients), the exhibition of wall-papers in the British Colour Council headquarters in Portman Square gives a very fair idea of what the better English wall-paper manufacturers are up to at the moment. As an exhibition it suffers from the light-fitting gimmick, but the stuff on view is good. Most of the lines which have established themselves as the "contemporary" repertoire—spots, stripes and posies with a few all-overs which struck a new line—are shown with fabrics and other devices in combinations which are always tasteful and sometimes exciting. It is this aspect of the exhibition to which clients' attention might most profitably be drawn, because the furniture/wallpaper combinations are probably more suggestive to someone who isn't sure about modern, than seeing the various elements in isolation.

*

A little bird whispers, by the way, that the British Colour Council intend to make the first floor of the building into a permanent display centre for interior furnishings and fittings.

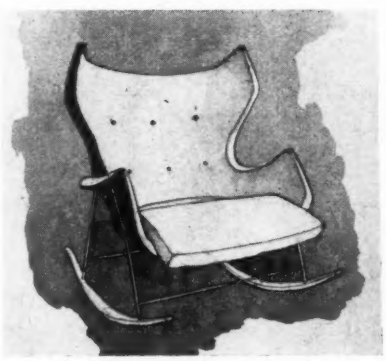
THREE KINDS OF HONESTY AT THE AA

At Thursday's AA meeting Ove Arup was so honest about structural honesty that the large audience was too stunned to come back at him. The structural honesty demanded by "a certain school of architects" was, he suggested, really one of three. There is (1) the structural shape which *looks* right, and you know when its right by an intuitive "feeling for structure"—the architect's most prized possession. There is (2) "organic" structure—shaped according to the stress distribution within; this is what architects often say they mean when they really mean (1)—and in any case the stresses change when the wind changes. And there is (3) structure shaped according to the exigencies of manufacture—which architects now leave to the engineer—with the danger of "losing touch with the foundation of practical facts, on which alone his Art can flourish." Salutary words, these; 1, 2, and 3 do not add up to the same ultimate shape, nor will their relative importance be the same for all buildings, but the achievement and the assessment of architectural worth must account for all three. This means, concluded Mr. Arup, that the next stage for us should be collaboration with the contractor. But that subject, he said, would require another lecture.

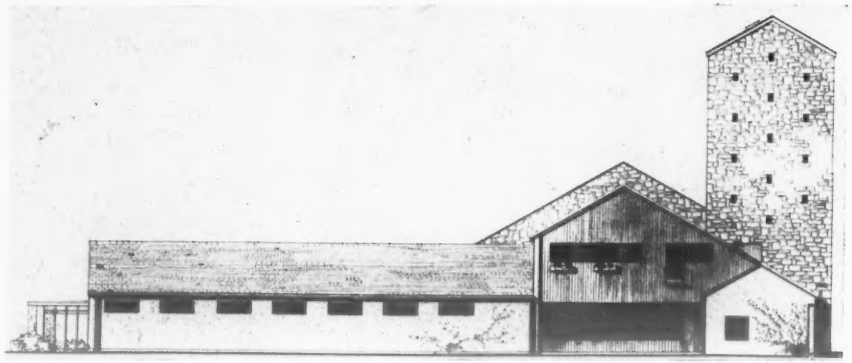
Below right, four prizewinning designs in the recent latex foam furniture design competition sponsored by the British Rubber Development Board. From top to bottom: first prize (£50) to Aidron Duckworth of the RCA for a general purpose, plywood and foam rubber chair. Second prize (£25) to David Davenport, of the High Wycombe College of Further Education, for chair using foam-rubber and coil springs. Third prize (£15) to A. H. Tilbury of the Kingston School of Art for a rocking chair with metal frame and sheet latex on hessian padding. Fourth prize (£10) to S. I. Dysthe, of the RCA, for a settee. The assessors said "None of the competitors had 'built a chair round latex foam' or showed a real appreciation of its possibilities. On the whole it had been used in a manner based on conventional upholstery methods and knowledge appeared to be limited to plain and cavited sheet. There appeared to be little understanding of the effect of or need for shaped bases or shaped cushions—a field in which special mouldings could be used with advantage."

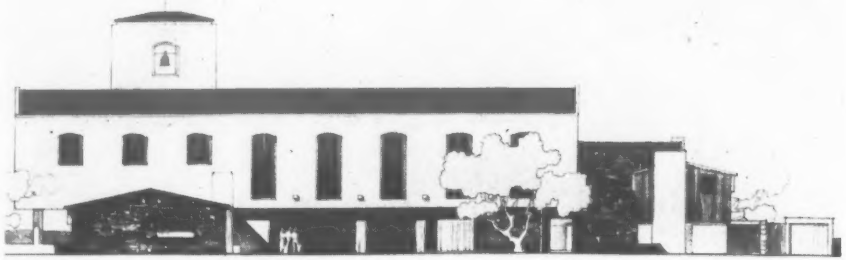


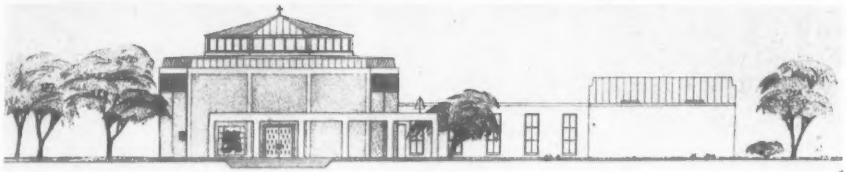


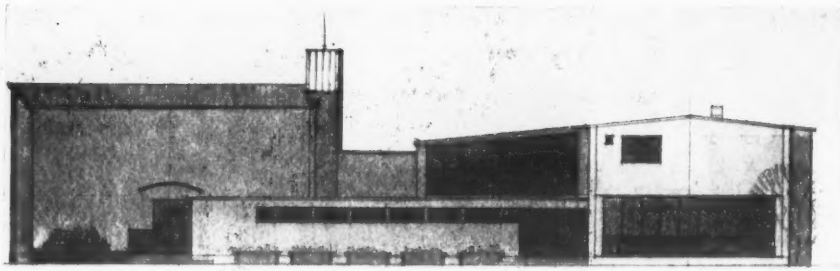


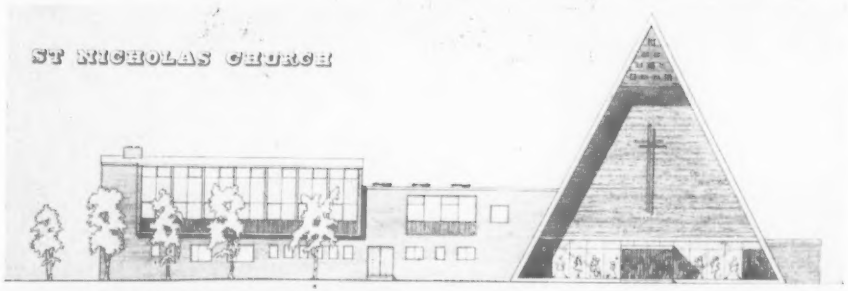


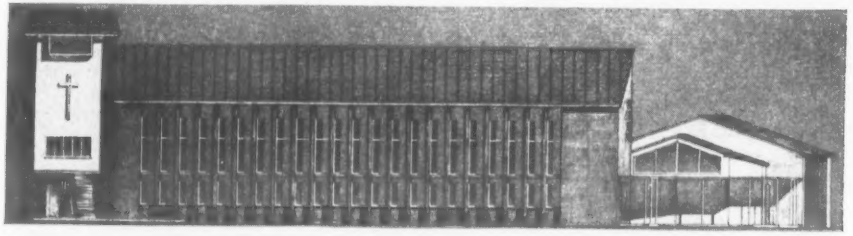


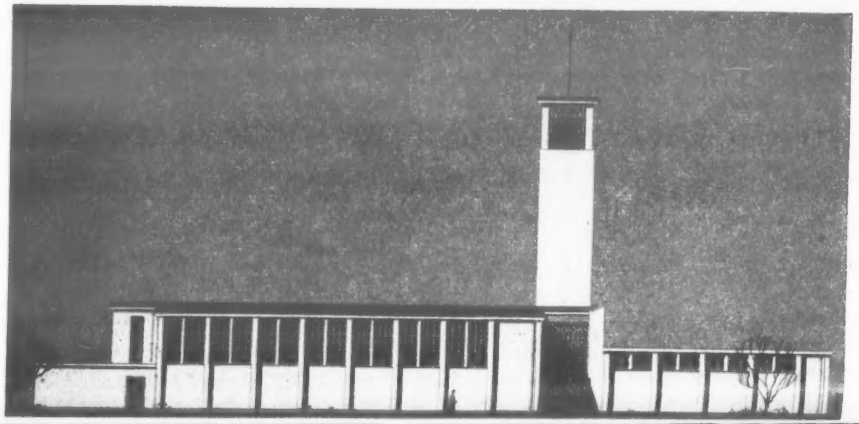












Which Church Will Be Built?

Six of these designs failed to win a prize in the Scottish competition for a church for Sighthill, Edinburgh. The seventh, top right, won first award. But if the assessors have their way the winning design will not be built, and the other six—together with two more which will be illustrated in the JOURNAL next week—will be revised and submitted again. It is up to the Scottish Church Authority to decide whether or not to accept the assessors' recommendations. If it does so it will choose an architect for the church from thirteen competitors—five prizewinners and the eight also-rans whose designs were "outstanding" but too costly. A correspondent comments on the competition results on page 392. Designs shown here were by:—(left-hand column, top to bottom) Basil Spence and Partners; Ian W. Paterson; Alec E. Murray; (right-hand column, top to bottom) A. M. Doak and A. R. Whitelaw; Peter L. A. Williams; Andrew Jackson; W. R. Ashcroft and David M. Jones.

ARCHIT

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* See RI

ARCHITECTS' TRADE UNION

Other architectural papers have described at some length the trade union formed by the IAAS. Wisely, I think, the JOURNAL'S editors are withholding details and comment until the RIBA has been given a chance to make up its mind.* Surely the vital thing to ensure is that if the profession is found to want a body to negotiate salaries, only one trade union is formed. Unless architects can achieve some unanimity of purpose, and support a *single* negotiating body, it would be better to have none. Nothing would be more ridiculous than two, three or four unions all competing for membership.

*

There is nothing particularly striking—judging from a cursory glance—in the two documents issued by the IAAS on the aims, objects and rules of this trade union, or BAG (British Architects' Guild). Indeed, as the IAAS officers said themselves, there is nothing very difficult about registering as a trade union. The most significant feature in the rules seems to be in the constitution of the Council of the BAG. This is to consist of not less than one-third members of the RIBA and not less than one-third members of IAAS. As the IAAS is probably only *one eighth* the size of the RIBA, the constitution of that vital factor, the Council, seems to be based neither on proportional representation nor even on democracy.

THE SPEC. BUILDING DANGER

Builders in parts of England are being asked to design houses with period frills for snobbish private clients so that the houses cannot be confused with architect-designed council estates. At least, that is one of the builders' excuses for not using architects. ASTRAGAL learns that the RIBA is aware of the dangers—both to the profession and the public—of spec. house building now licences can be had for the asking, and is negotiating with the Federation of Registered House Builders to see whether some agreement on the use of architects' services—possibly at some special scale of fees—cannot be made. ASTRAGAL, who so often joins in that cry of: "Why doesn't the RIBA *do* something?" can scarce forbear to cheer.

ASTRAGAL

* See RIBA comment on page 392—ED.

POINTS FROM THIS ISSUE

Sighthill Church Competition: **Assessors prefer losers' designs** pages 388 and 392

A JOURNAL **Award to Student Readers:** two prizes of £200 editorial below and page 391

RIBA statement on **architects' trade union** page 391

Town Planning Bill: reviewed by Ernest Watkins page 407

The Editors

TWO AWARDS TO STUDENTS

NOT all students are examination-minded. There is a school of thought, amongst which can be found some of the most original and able minds, which is allergic—by temperament or conviction—to the whole idea of scholarships. Students of this sort may have excellent ideas for their own higher architectural education, but they usually lack the money to carry them out, and the usual type of research scholarship is poison to them.

Isn't it time that these unconventional students were given a better chance of exercising their unconventional minds? We think it is, and we propose to do something about it. In next week's JOURNAL we shall publish the entry form for a competition which is as unorthodox as the type of student we hope to hear from. All we are asking student readers to do is to say what sort of research they would carry out with £200. The two students who give the most original and creative replies will each be awarded that sum of money. When they have spent it on the research for which they wanted it they may, if they wish, submit a report to the JOURNAL for possible publication.

The JOURNAL's competition (described on page 391) has two advantages. The first is that people who don't win a prize will not have wasted any more of their time than it takes to fill in the entry form. The second is that those who do win won't have wasted any time either.

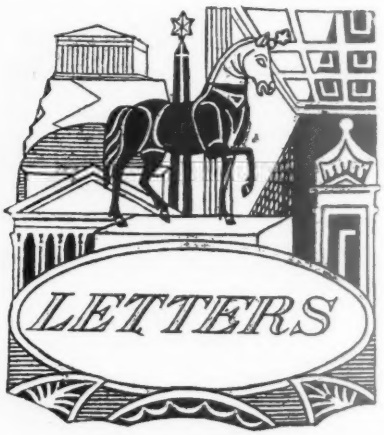
PLANNING OFFICER *V.* ARCHITECT

"A building in a modern style should rarely be opposed, and only on the clearest evidence that the building would be completely unharmonious with its neighbours and entirely out of keeping with its surroundings would the Minister consider there were sufficient grounds for refusing planning permission." With these words the Minister of Housing and Local Government allowed an appeal against the refusal of the Bucks planning authority to permit a farmhouse of contemporary design to be built in the Turville valley. This happy ending to an appeal which should never have been necessary may serve to enlighten planning authorities on their duties. There are, nevertheless, two disturbing features: First, not all clients can afford to wait nearly half a year for a planning appeal to be heard. Does the Ministry move so

(right-hand column, top to bottom) A. M. Doak and A. R. Whitelaw; Peter L. A. Williams; Andrew Jackson; W. R. Ashcroft and David M. Jones.

slowly because it is overworked? Or because it knows that by moving slowly it lightens its task by discouraging—through the time-factor—all appeals. Second, planning officers who are not qualified architects are clearly shown by this and other successful appeals to be incapable of judging an architect's elevations. Some planning officers avoid this issue by having advisory architect panels. These tend to suffer from "committee-minds." In other cases the planning officers only refer to the panels the "difficult" or unusual designs, passing quite happily themselves the spec. builder's designs for monstrous villas because these are obviously in keeping with the pre-war horrors in the neighbourhood.

Commonsense values are upside down if the employment of an architect by a client does not mean that the client will get planning permission more smoothly and quickly than if he tries to build without. Licences are becoming easier to get now, and more and more architects will find themselves in the absurd position of being told how to design by the ill-qualified or unqualified. There is, we think, a reasonable solution to this situation, which will be put forward in a forthcoming issue.



Arthur J. Willis

R. A. Smeeton, A.R.I.B.A.

"Student"

J. James

Joan Hogg

The Quantity Surveyor

SIR,—I hope that your readers will not take the annoymous article by "Chartered Quantity Surveyor" in your issue of March 18 as exemplifying the standard of literary clarity to be expected of the profession. I pass over quickly such blundering misuse of words as "increasing" a status (for "improving"), "sounding a word of warning" (for "sounding a note . . .") and "estimation" of prices, a word obsolete in that sense for over 150 years. However, scrabbling amongst the verbiage, I find some points of importance, drawing attention to the errors of Professor Bowen in his article of December 31, which need isolation to bring them to notice. I quote the Professor's words:

1. "The quantity surveyor will estimate a price for each of the items" (in the bill of quantities). He will not. Such a statement only exposes the Professor's ignorance and nullifies the value of his opinions.

2. "The builder and the client are only interested in the final figure." Yes, but there must be means to attain the end, and it is only the means that are under discussion.

3. "Final costs are rarely documented." Most builders' offices keep records. Professor Bowen cannot have looked far.

4. "A profession that would not exist if the building industry were organized on sound lines." The negative statement, without explanation of what the sound lines are is useless. The example of the button factory, which in his reply he despises, was evidently given by the writer to emphasise that the costing of mechanical processes is simpler than that of building work—an undoubted fact.

5. "This sketchy account refers to practices which are now out of date." They are not out of date. To understand the working of the building industry needs more than what is admitted to be only a sketch.

6. "The architect cannot plan ahead unless he is working in an environment conducive for that result to be obtained"—economic jargon that means nothing unless the conducive environment is given a practical interpretation.

7. "The building industry is largely inefficient." The Professor had better return to his economic laboratory and evolve a formula for an economic architect's fee for those £25 jobs that he visualises. He might well leave the building industry to do its own job in the way that years of experience and the constant study of modern developments have taught it to be the best. I would commend to him the wisdom of Dr. Johnson: "He who knows that he undertakes to write on questions which he has never studied may, without hesitation, determine that he is about to waste his own time and that of his reader, and expose himself to the derision of those whom he aspires to instruct."

ARTHUR J. WILLIS.

London.

Regionalism in Design

SIR,—You ask in your caption to the page of elevations submitted for the Falmouth school competition (AJ, March 25, page 358), "Do any of these elevations belong to the Cornish coast?" I think that the winning design of Lyons, Israel and Ellis definitely does belong there, and if you are thinking of starting a collection of examples of healthy regionalism you might well begin with this. But it would be interesting to hear from the architects themselves what were their ideas about regional character in relation to this design.

R. A.SMEETON.

Birmingham.

Final Theses

SIR,—Some will have read with detachment and unconcern the recent pronouncement by the RIBA Examiners on the decline in the quality of Final Theses (*RIBA Journal*, February, 1954), but others, like myself, must have studied their kindly suggestions with sinking hearts, and turned at last with chill foreboding to a precious sheaf of typescript ready to be submitted in a few weeks' time. As we feared, they are all there, the colloquialisms and the forbidden clichés, the vagueness and verbosity.

How we wish we had read Sir Ernest Gowers, and not used "however" 427 times! How we wish the learned gentlemen had held their peace until next year, and allowed us to slip in our own poor efforts under the benevolent ægis of the old dispensation.

"STUDENT."

Essex.

USA Buildings ?

SIR,—If any of your readers had the opportunity of visiting America for four to five weeks in the autumn, what would they be sure to see? In other words, if they were unrestricted, what programme would they follow in order to see and learn the maximum possible about building materials and developments in the USA.

J. JAMES.

Surrey.

Too Much Glass

SIR,—I have just seen the letter (AJ: Feb. 25) from "Maintenance Surveyor." I have been living in a house with a large amount of "glass wall" for the past four years. For the first time in my life I have known absolute comfort. The big windows, of course, face due south. During the cold spell, when the sun shone, heating was unnecessary. Otherwise normal heating kept the house perfectly warm. Nor is there double glazing, as the house was built under strict licence.

In summer I am able to keep it comfortably cool by well-planned ventilation and curtains. I now find all other houses cold, dark, and depressing, and refuse to go away at all in winter unless absolutely necessary.

JOAN HOGG.

Sussex.

STUDENT READERS

WHY DO YOU WANT £200?

If you have a good and original answer to that question—an answer that has something to do with your studies—you are invited to write it on an entry form in next week's JOURNAL. *Your answer may win you £200.*

two awards to be won

The JOURNAL is, in fact, offering *two* awards of £200. The money will go to the students with the best plans for using it for some kind of research. They will get the money without working for it. All they have to do is to say, quite simply, what they want it for. And they must, of course, guarantee to use it on the research for which they claimed it. Any reports they prepare as a result of their research will be considered for publication in the JOURNAL.

losers don't lose

You will see the main advantage of this kind of research scholarship. In the usual way, if the student wants to win some money so that he can further his studies he has to spend a lot of time doing preliminary work. If he fails to win the money, then he has wasted time he can ill afford to spare from his school work. But if a student fails to win either of the JOURNAL's prizes, he will have wasted no more time than it takes to fill in a form. This, we feel, is as it should be, for the student has quite enough to do for his school programme, without taking on additional work which may or may not benefit him.

what the assessors will look for

This is an unconventional competition and the assessors will be looking for the work of an unconventional mind. We believe that the conventional scholarships are properly won by conventional people —the accomplished " front-room boys," the steadies of the profession. But there are others—the " back-room boys "—who never go in for prizes, scholarships or competitions because their minds don't work that way. Their temperaments allow them to do their best work only on jobs that really interest them. It is not in their nature to like examinations; but it *is* in their nature to produce ideas, and to work hard in carrying out those ideas. Those are the people our assessors are interested in—the students who may well have brilliant careers ahead of them if they are given the chance to exercise their unconventional minds.

enter next week

So if you are on the RIBA Register of Students, and think you have a useful way of spending £200, get next week's JOURNAL and fill in the entry form. But please don't fill it in if you only want to settle an overdue account with your landlady. That would be *too* unorthodox.

N E W S

COMPETITION

Sighthill Church: Assessors Prefer Losers' Designs

Our Scottish correspondent writes:—

The announcement of the Sighthill Church Competition results last Friday caused a small sensation among architects in Scotland. Eight designs of considerable merit were selected by the assessors, but excluded from the prize list because of excessive cost. The prizes were awarded for five designs which substantially fulfilled the practical requirements and could in the opinion of the assessors be executed within the ten per cent. allowable excess over the funds available, but which, in their present form, could not be recommended by them for erection. The assessors recommend that the authors of the eight selected designs should be asked to revise their schemes with a view to lower costing, and re-submit them. The five prizewinners would also be invited to re-submit their modified designs at the same time. From these it is hoped to make a final choice.

The prizewinners were: First (£750), Archd. M. Doak (D.A. Glas.), ARIBA, and A. R. Whitelaw, ARIBA, of Clarkston, Renfrewshire. Second (£450), C. A. Hope, Edinburgh. Third (£300), R. S. Morrison (D.A. Dundee), ARIBA, Glasgow. Fourth (£200), Alex. R. Taylor, ARIBA, Glasgow. Fifth (£100), Eric W. Hall, ARIBA, and Michael T. D. Macmichael, ARIBA, Edinburgh.

The following competitors specially mentioned by the adjudicators did not receive awards: Andrew Jackson, ARIBA, E. Kilbride, Lanarkshire. Ian W. Paterson, ARIBA, Robert Gordon's College, Aberdeen. Alec E. Murray, Corstorphine, Edinburgh. Jean E. Crane, ARIBA, and Richard G. Jones, Aberdeen. R. C. Stones, ARIBA, and Barbara Brodie, ARIBA, E. Kilbride. Peter L. A. Williams, ARIBA, Cardross, Dumbartonshire. Basil Spence & Partners, Edinburgh. W. R. Ashcroft, ARIBA, Alexander D. Bell (student RIAS), and David M. Jones, Perth.

One glance at the drawings on view in Edinburgh now is sufficient to reveal the inferiority in architectural quality of the prize-winning designs. A closer study unfortunately reveals the fact that possibly none of the thirteen designs combines architectural merit with a solution of the problem posed, altogether apart from the question of cost. Readers will be able, however, to assess the comparative aesthetic values of the two groups when they are illustrated in these pages next week. (A few elevations are shown on page 388.) Not included in the prize-winning or "recommended designs is one by Ivor Dorward which seems to me worthy of special mention for its skilful handling of masses, interesting construction and beautiful presentation.

The problem of providing a church for 500 persons, with vestry and session house, large and small halls of 2,200 and 600 sq. ft., along with kitchen and dressing-room accommodation, etc., and a house for the church officer, all within the stipulated figure of £45,000, which is also to cover the layout and fencing of the grounds, and professional fees, is certainly not simple. Yet the assessors, Professor Robert H. Matthew, Harry Taylor, and the Rev. Professor J. G. Riddell, apparently believe it is possible.

Few competitions can have started with a less inspiring site—a fairly level rectangular plot of one acre, slightly below street level; bounded on the north by an arterial road (Calder Road); on the west by a secondary through road (Wester Hailes Road); and on the south by a service road (Sighthill Loan), on the opposite side of which three-storey flats are in course of erection. To the east of the site is the community Bowling Green.

In addition to the accommodation mentioned above a manse is asked for, though not included in the cost, and no part of the buildings is to come within 40 feet of the building line at Calder Road where existing temporary buildings are to remain until the new Church buildings are completed. This condition, and a stipulation that vehicular access must be only from Sighthill Loan on the south, created an interesting planning problem, solved, or perhaps evaded, by some competitors by placing the halls, etc., underneath the church.

In view of the rather anomalous situation created by the assessors' report, which can be satisfactory to neither the premiated nor the "recommended" group, it seems a pity that particular attention was not drawn to the fact that the cost limit was a rigid one. Most experienced competitors know well that few successful competition designs ever stand any chance of being executed within the stipulated amount. However, it is possible that the decision of the assessors, though something of a compromise in this case, may not only point to the desirability of unequivocal conditions in future competitions, but may also result in the erection of a really good scheme.

It is clear, in any case, that the assessors were placed in a difficult position and might have preferred to have made no awards at all, if excess over cost were to exclude a design automatically. But apparently awards had to be made and those within the cost limit.

In addition to more emphasis on the strict limitation of cost, the conditions might well have stipulated also that no award would be made if the assessors considered that no design reached the requisite standard.

Too little merit is even worse than too much cost.

RIBA

Statement on BAG

The RIBA has issued the following statement: RIBA has been informed that a body named the British Architectural Guild has been registered as a trade union. In the aims, objects and rules of the Guild reference is made to the RIBA.

Members and Students, RIBA, are informed that no consultations whatever were held with the Royal Institute prior to the registration of this Guild nor had the Royal Institute any foreknowledge of the intention to register. The Guild has since stated that it hopes for the Royal Institute's support.

In these circumstances and in view of the fact that answers to the RIBA questionnaire on representation of salaried members have yet to be collated before the Council can study the opinions expressed,, members and Students may think it wiser to await the Council's consideration of the whole matter and any recommendations that may be made before committing themselves.

MOW

Change in Licensing System

The Minister of Works, Sir David Eccles, was asked in the House of Commons last week what changes were contemplated in the arrangements for the issue of licences by local authorities for the building of private houses.

The Minister replied: "As an administrative economy my Department will, from April 1 this year, issue the building licences now given by local authorities for private houses of not more than 1,500 square feet in England and Wales. Local authorities will still have discretion to issue licences for houses over 1,500 square feet in area and for housing maintenance and conversion work above the free limit. The arrangements in Scotland are still under consideration."

The MOW has issued the following statement:—

"The easing of pressure on building resources and the licensing machinery now makes it possible to achieve further economy in the licensing system and a measure of concentration by the change in procedure now announced. After consultation with the MOHLG, the MOW is taking over the issue of licences granted automatically; local housing authorities will continue to deal with those housing applications where discretion in the issue of a licence must still be exercised, i.e. for houses of over 1,500 sq. ft. This change does not apply to Scotland where the matter is still under consideration.

Applications for licences to build houses of not more than 1,500 square feet after April 1, 1954, should be sent to the appropriate Licensing Officer, Ministry of Works, whose address is given in the list attached. Licences will still be issued automatically for houses up to 50 in number. Applications to build more than 50 houses will be considered as at present in the light of local conditions. For houses over 1,500 square feet application should still be made to the local authority.

People wishing to build a new house, whatever its size, will still have to get planning approval and clearance under local bye-laws from their planning authority and local housing authority.

CORRECTIONS

In the list of Diary items published in last week's JOURNAL was included the presentation of the Royal Gold Medal at the RIBA on April 6. This, of course, in incorrect, as the medal has been presented by the Queen during her Australian tour.

In last week's issue aerial photographs of the towns of Tewkesbury, Wells, Caernarvon and Lympstone on pages 368-370 should have been acknowledged to Aerofilms, Ltd.

Ivor Hodges, L.R.I.B.A., has commenced practice at 20, Dorset Square, N.W.1. (Tel.: PADdington 8318) and not at 53, Highview Avenue, Edgware.

OBITUARY

Neil Martin-Kaye

We regret to announce the death of Neil Martin-Kaye, a Fellow of the RIBA and for many years editor of *Architecture Illustrated*.

DIARY

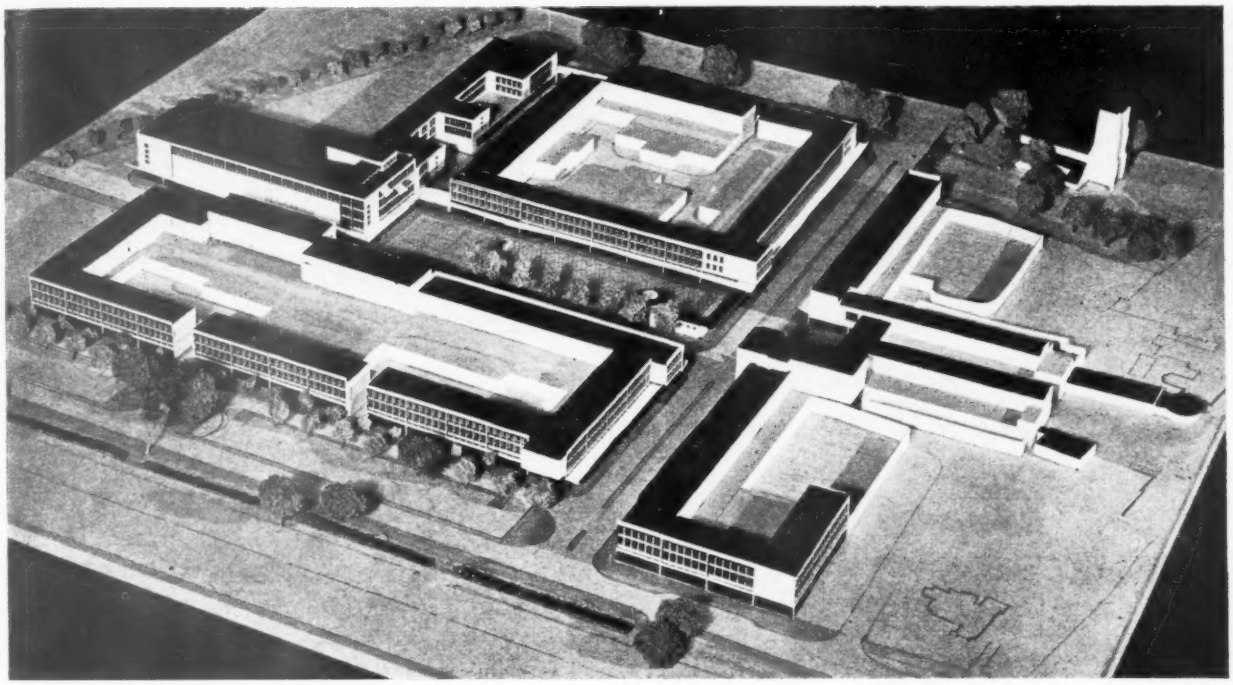
Annual Reception. At the AA, 34, Bedford Square, W.C.1. 8.30 p.m. APRIL 8

The Planning of Lift Installations in Commercial Buildings. At the RIBA, 66, Portland Place, W.1. 6 p.m. APRIL 13

Annual General Meeting. At the RIBA, 66, Portland Place, W.1. 6 p.m. MAY 4

British Architects' Conference, Torquay. For full particulars apply to the Secretary, RIBA, 66, Portland Place, W.1. MAY 26 TO 29

NEW TOWN CENTRE FOR CRAWLEY, SUSSEX



At the annual meeting with elected representatives of the Crawley Development Corporation on March 27, the chairman, Sir Thomas Bennett, outlined proposals for the Town Centre, the latest models of which are illustrated above and below. The general view, above, shows the main shopping area. In the centre is the town square, with municipal buildings on the left and shops on either side. In the left foreground is a boulevard which is now under construction, and which will form the northern boundary to the shopping area. The blocks on the right are also shops, through which runs a broad pedestrian way, now also under construction. To be known as the Broadwalk, it will connect the new shopping area with the existing High Street, which will remain a main shopping street, retaining its Sussex character. Part of the High Street is shown in the foreground of the model below, with the Broadwalk behind it running under the shops at the far end to connect it with the town square.



SECONDARY SCHOOL

in BOUNDARIES ROAD, FELTHAM, MIDDLESEX

designed by C. G. STILLMAN, county architect,

E. MASON, area architect, L. J. FOX, architect-in-charge

quantity surveyors, MERCER and MILLER

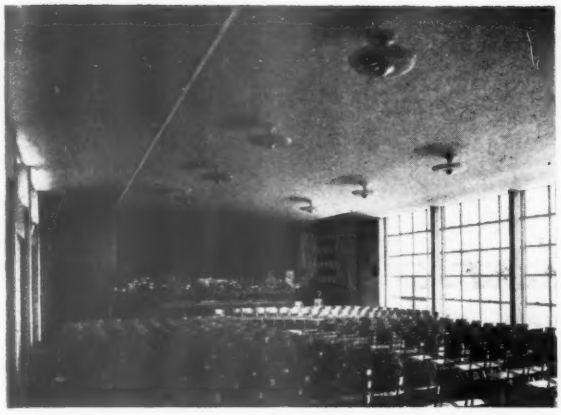


Classroom wing from the south.

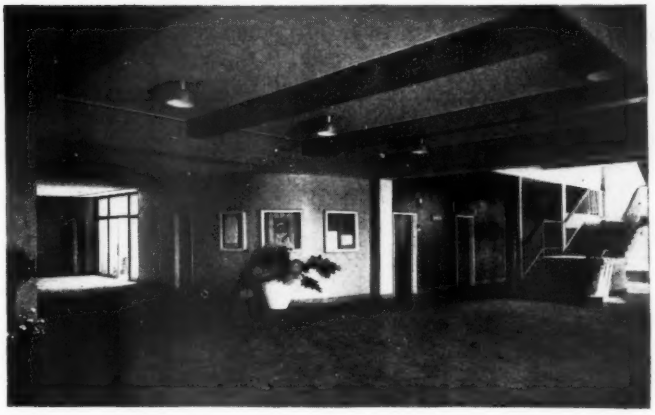
The Lafone Secondary Modern School for girls is among over 20 secondary schools opened in the county since the end of the war. The portion of the school now in use and illustrated here accommodates 560 pupils and forms the first instalment of a four-form entry school, which will eventually take 680 children. The site, which is level and of 34 acres, is also to contain a boys' school.

The west wing, containing practical rooms.



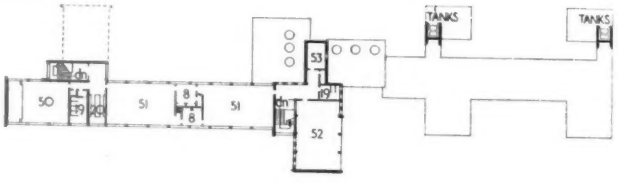


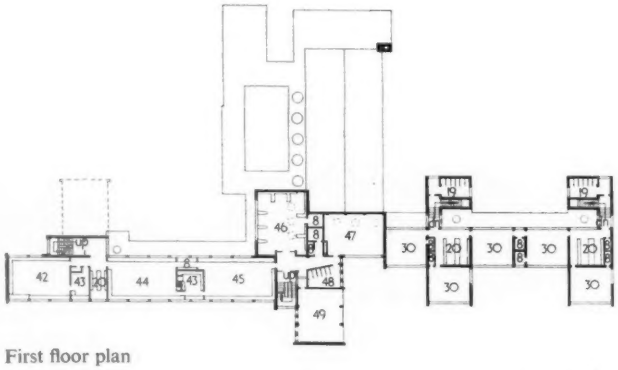
The assembly hall, looking towards the stage.



The main entrance hall, on the left is the corridor to the classroom wing.

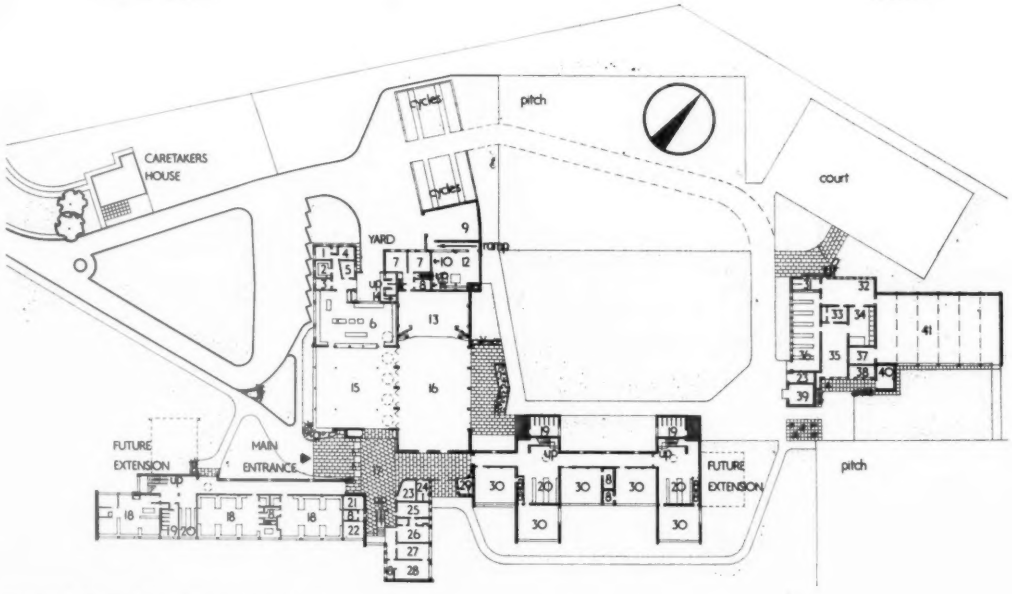
Second floor plan





First floor plan

PLAN.—The practical rooms are in a three-storey block to the west and the classrooms in a two-storey block to the east, linked by the entrance hall to the assembly and dining halls. The gymnasium and changing rooms are in a separate building to the east of the main block. The only corridors are on the ground floor and these are short. The circulation area forms 15·5 per cent. of the total accommodation, which is 47,365 sq. ft., making 79 sq. ft. per place. (Figures apply to the complete part of the school. For the final scheme the circulation space will be 14·8 per cent. and there will be 75 sq. ft. per place.) The main aspect of the school is south-east and all



Ground floor plan [Scale : $\frac{1}{16}$" = 1' 0"]

KEY

1. Kitchen staff lavatory
2. Dry store.
3. Kitchen office.
4. Larder.
5. Vegetable store.
6. Kitchen.
7. Dressing room.
8. Store.
9. Fuel yard.
10. Fuel store under dressing room.
11. Pumps under store.
12. Boiler house.
13. Stage.
14. Chair store under stage.
15. Dining room.
16. Assembly hall.
17. Entrance hall.
18. Housecraft room.
19. Girls' lavatory.
20. Cloaks.
21. Stationery store.
22. Head of evening department.
23. Switch room.
24. Male lavatory.
25. Waiting room.
26. M.I. room and rest room.
27. Secretary.
28. Head.
29. Female lavatory.
30. Classroom.
31. Lavatory.
32. Gymnasium changing room.
33. Instructor.
34. Showers.
35. Games changing room.
36. Lockers.
37. Gymnasium store.
38. Games store.
39. Electrical sub-station.
40. Heating.
41. Gymnasium.
42. Biology lab.
43. Preparation room.
44. Science lab.
45. Craft room.
46. Library.
47. Staff room.
48. Staff lavatory.
49. Geography room.
50. Music room.
51. Needlework room.
52. Art room.
53. Art store and tank room over



Left, the south-east facade of the three-storey block, which contains practical rooms. On the right is a tall staircase window.

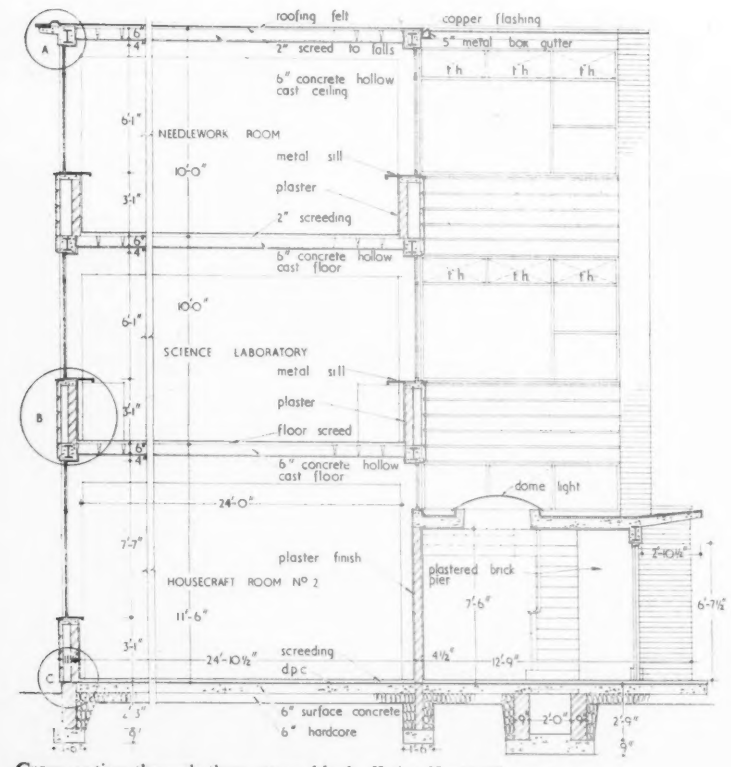
SECONDARY SCHOOL

in BOUNDARIES ROAD, FELTHAM, MIDDLESEX

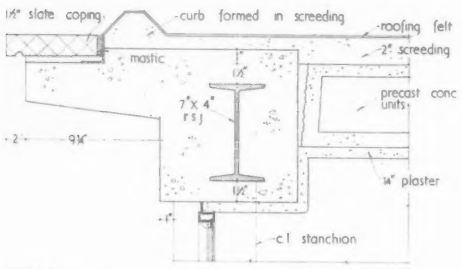
designed by C. G. STILLMAN, county architect

rooms, except the library overlook playing fields. All teaching rooms have natural light from two directions. The assembly and dining halls are linked by four sets of folding-sliding doors.

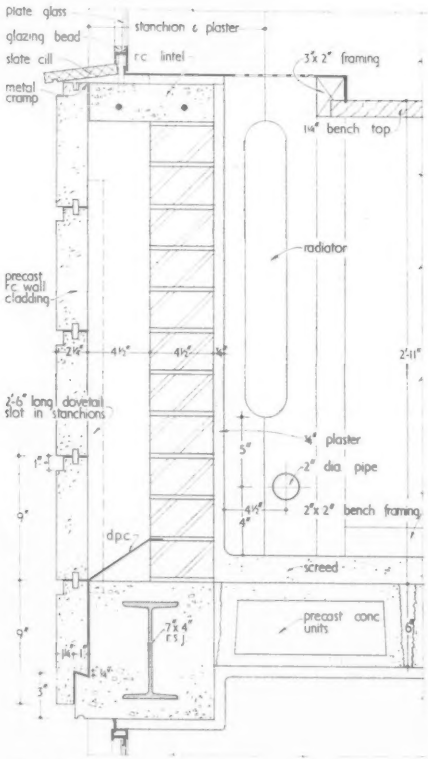
CONSTRUCTION.—The three-storey wing, assembly and dining halls are steel-framed and have precast concrete floor and roof units. The two-storey block has load-bearing brick walls and 24-ft. span prestressed precast concrete floor and roof



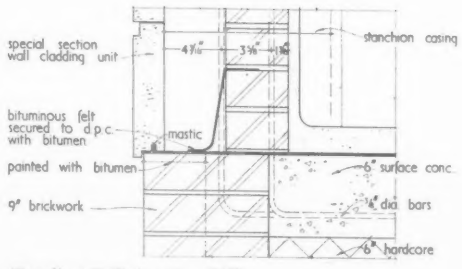
Cross section through three-storey block [Scale : $\frac{1}{8}$" = 1' 0"]



Detail at A



Detail at B



Detail at C [Scale : 1" = 1' 0"]



Right, the main entrance doors and on the left a corner of the dining hall. Above the entrance is the library. Below, the gymnasium, which has a post-tensioned prestressed concrete frame. The floor is of seraya wood strips.

units to classrooms, used here for the first time in a Middlesex school. Normal precast concrete units to lavatories. The gymnasium has a post-tensioned prestressed concrete frame and the changing rooms have load-bearing walls and precast concrete roof units.

FINISHES.—Most bricks are Buckinghamshire facings. There are primrose facings at main entrances. Concrete facing slabs—8 ft. long, 9 in. high and 2¼ in. thick—are faced with calcined flint aggregate. Sills, copings and window surrounds are of slate. Windows are purpose-made steel and the three-storey staircase windows have timber frames. External door frames are of hardwood. Roofs are finished with three-layer bituminous felt, except the assembly hall, which is covered with copper. Floors are beech and oak blocks in teaching rooms, missanda blocks in assembly hall, seraya wood strip in gymnasium, cork tiles in library and staff rooms, studded rubber tiles in corridors, Honiton stone in entrance hall, precast terrazzo stair treads and risers, concrete tiles in parts of housecraft rooms, granolithic in laboratories and cloakrooms. Most walls are plastered. In corridors, they have cement rendering with wood float-finish. Ceilings are generally plastered; in the assembly hall they are plaster on fired clay and wire mesh lathing; in the gymnasium, they are of insulation board. Benches and fittings have oak frames and iroko tops; library fittings are of bleached and natural polished mahogany. The assembly hall stage has a proscenium faced with hardwoods of two colours arranged in vertical stripes. The suspended plaster ceiling is shaped for acoustic purposes. The floor, rear wall and ceiling of the music room, which has a low platform, are insulated against structure-borne sound.



The estimated cost is £143,335 for buildings and playgrounds for 560 places. Cost per place, £256 (560 places), £245 (680 places).

The general contractors were Taylor Woodrow Construction, Ltd. Sub-contractors, page 414.

TRAVEL CENTRES

1. in LOWER REGENT STREET, LONDON, W.1

designed by DR. F. F. C. CURTIS, architect to the Railway Executive

assistant architects, P. W. MACIVER, I. COLQUHOUN, D. R. SHORTEN and JUNE COOMBE

assistant, G. LESSER; ventilating, heating and lighting, F. C. FOREMAN

quantity surveyors, RIDER HUNT and PARTNERS

2. in VICTORIA STREET, LONDON, S.W.1

designed by H. H. POWELL, regional architect, British Railways, Eastern Region

R. T. WALTERS, deputy regional architect; R. G. ROBBIE, assistant architect-in-charge



On the left, the cinema back-projector

The ground floor space at Rex House, Lower Regent Street, now a Travel Centre, was converted at the beginning of the last war into an air-raid shelter. It was still in that condition when work on the conversion began, and thick blast walls, dividing the area into compartments, had to be removed. The centre was planned to provide a centralised booking and information office in the West End, where tickets and reservations could be obtained for all rail and steamer services of British Railways.

The corner of Carlton Street and Lower Regent Street.





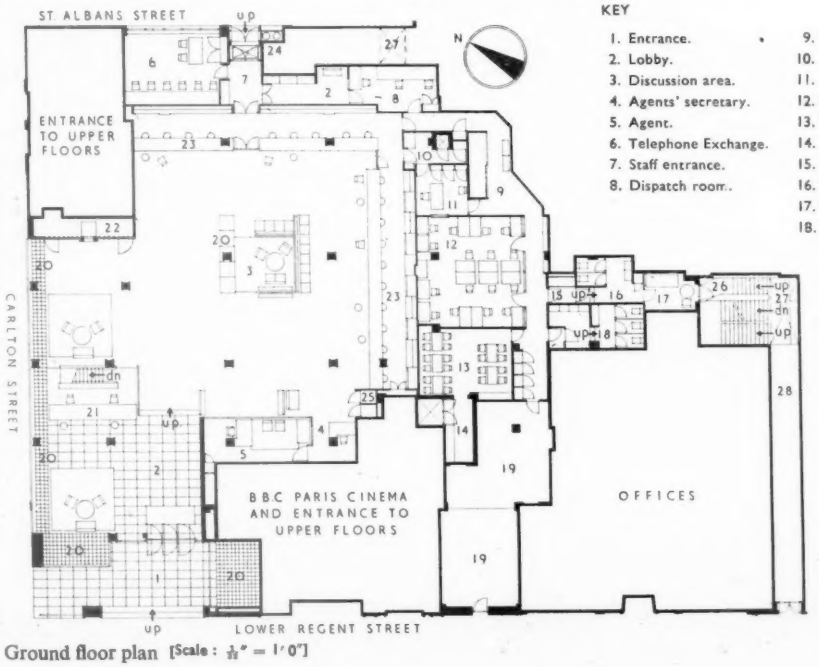
Right, the main concourse, showing the discussion area (3 on plan) and one of the ticket counters (23) on the left.

TRAVEL CENTRE

in LOWER REGENT STREET, W.1

designed by DR. F. F. C CURTIS

GENERAL.—The greater part of the travel centre is in the body of the building and consequently depends entirely on artificial lighting and ventilation. A plenum plant provides the ventilation and heating of the premises, and in order to allow a free flow of air, all partition walls, except those enclosing the mess room, kitchen and lavatories, are only 6 ft. 6 in. in height. To guard against sound transmission, ceilings over offices are finished with acoustic plaster, and over most of the main public space an egg-crate ceiling is used. The desks of the telephone enquiry clerks have sound-absorbent hoods of perforated aluminium sheeting backed by glass fibre. Although the main egg-crate ceiling is only 8 ft. high, the high intensity of lighting, and the impression that the ceiling has no weight, makes the area appear higher than it is. The main lighting is by fluorescent tubes, and by tungsten lights, to a lower intensity, in the rooms around the perimeter. The materials used include Portland stone facing for external piers, and slate facings for internal piers. Floors in lobbies and vestibule, York stone; in main public area, teak. Map panel, Haydene marble. Counter fittings and panelling in main area, mahogany. The general contractors were Tersons, Ltd. For sub-contractors, see page 414.

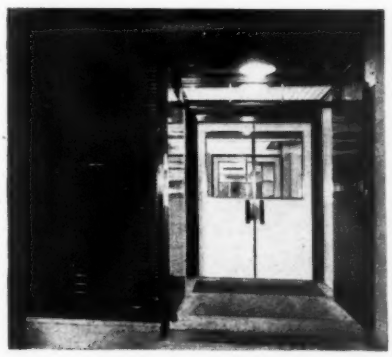


Ground floor plan [Scale : $\frac{1}{16}$" = 1'0"]

KEY

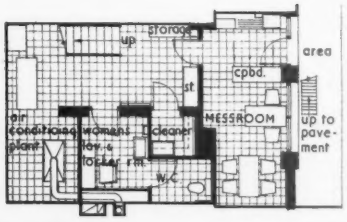
1. Entrance.
2. Lobby.
3. Discussion area.
4. Agents' secretary.
5. Agent.
6. Telephone Exchange.
7. Staff entrance.
8. Dispatch room.
9. Ticket store.
10. Chief Counter Clerk
11. Assistant agent.
12. General office.
13. Mess room.
14. Kitchen.
15. Cleaners store.
16. Women's lavatory.
17. Rest room.
18. Men's lavatory.
19. Unallocated space.
20. Display.
21. Information counter.
22. Cinema projector.
23. Ticket counter.
24. Refuse bins.
25. Public telephone.
26. Emergency exit.
27. Ventilation over.
28. Area.

The staff entrance.

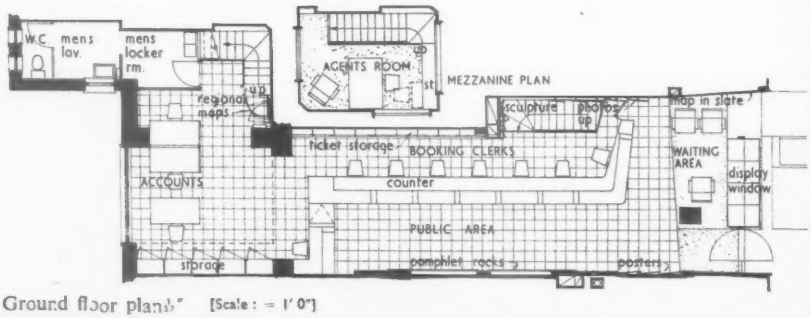




GENERAL.—This is a conversion of an existing British Railways ticket and parcels office to provide facilities for passenger bookings, reservations and enquiries for all regions, together with Continental enquiries for the Eastern Region only. The office is designed to operate with a maximum staff of ten, and counter space is allocated on the basis of 4 ft. per clerk. Each section is fitted with a comprehensive arrangement of drawers, cupboards and information slides. The display window is divided into two parts, one containing a space frame with interchangeable display panels, and the other kept permanently clear. The space frame, the proportions of which are based on a double-demy railway poster, is constructed of ½-in. square bars supporting a series of panels in plain or painted plywood or glass. One wall of the waiting area is finished in Welsh slate on which is carved a decorative route map of the British Isles and the Continental coast. Floors are finished throughout with thermoplastic tiles, except for the waiting area, where there is a grey carpet. Walls are finished with acoustic tiles or emulsion paint on plaster. Joinery is in idigbo. The office is air-conditioned and heated by coil units served by a gas boiler. The general contractors were A. Edmonds & Co., Ltd. Sub-contractors, page 414.



Basement plan



Ground floor plan [Scale: ⅛" = 1'0"]

TRAVEL OFFICE

in VICTORIA STREET, LONDON, S.W.1

designed by H. H. POWELL, regional architect, British Railways, Eastern Region

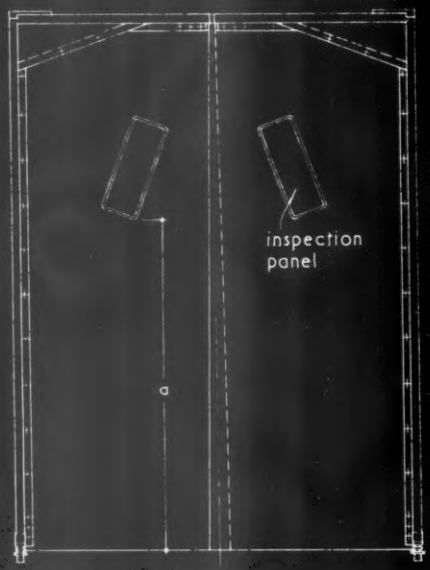


Top, the display window and entrance seen from Victoria Street. Right, the public area seen from the waiting-space. The sculpture over the stair is in plastic wood on an iron frame. This, and the carved slate map were designed by Richard Bentley Claughton and Denis V. Curry.



DOORS | RUBBER

The Architects' Journal Library of Information Sheets 461. Editor: Cotterell Butler. A.R.I.B.A.

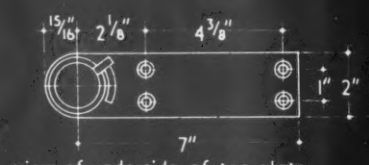


TYPICAL ELEVATION OF PAIR OF DOORS.

type	light	heavy
maximum height	8'-6"	10'-6"
max. width of single doors	3'-0"	4'-6"
max. width of pair of doors	6'-0"	9'-0"
dimension 'a'	4'-0"•	4'-3"

• for doors under 6'-6" high dimension 'a' varies according to the height of the doors

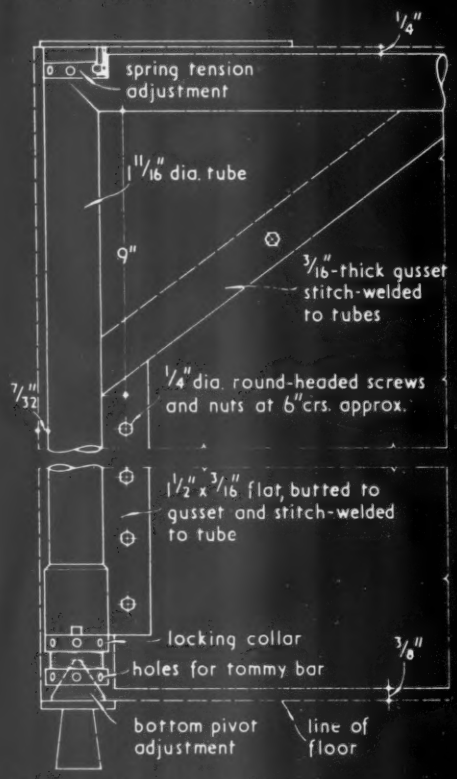
TABLE OF DIMENSIONS.



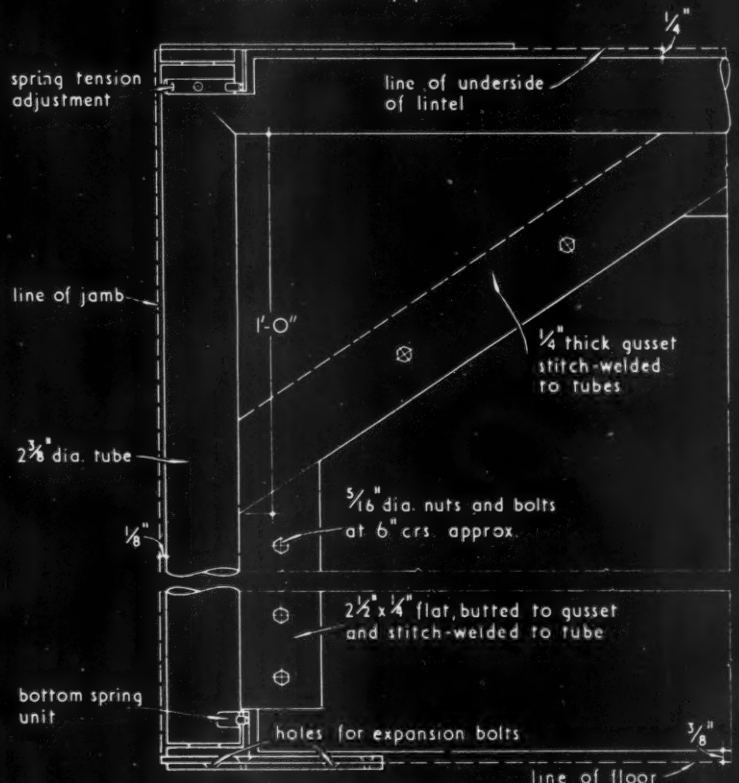
view of underside of top plate



view of underside of top plate



DETAIL OF LIGHT DOORS.



DETAIL OF HEAVY DOORS.

INDUSTRIAL RUBBER DOORS Manufacturer: William Newman and Sons Ltd. (Rubber panels by Dunlop)

23.Z2 INDUSTRIAL RUBBER DOORS *(Patent Nos. 2537, 2538 and 2539 applied for*

This Sheet describes rubber doors for use in commercial and industrial buildings. They are of the swing type and are available singly or in pairs.

General

The doors consist of flexible rubber panels held at the top and sides by tubular metal frames pivoted at lintel and floor. They can be arranged to swing either way or both ways if required. Their use makes it possible to have the advantages of a door to separate departments and exclude draughts, while at the same time permitting trucks, trolleys or persons to pass quickly through without noise or damage.

Construction

There are two types of door, light and heavy, and both types may be used singly or in pairs.

Main frame: These are of tubular steel, $1\frac{11}{16}$ in. dia. for light doors and $2\frac{3}{8}$ in. dia. for heavy doors.

Panels: The panels are manufactured from reinforced rubber sheeting $\frac{5}{16}$ in. thick for light doors or $\frac{1}{2}$ in. for heavy doors. The canvas reinforcement is of heavy duck with a $\frac{1}{16}$-in. tough, hard-wearing skin of rubber on either side. Where there is a pair of doors the rubber panels overlap $\frac{3}{4}$ in. at the top and 4 in. at the bottom.

Panel framing: The top and side edges of the rubber panels are held between steel flats, $1\frac{1}{2}$ in. by $\frac{3}{16}$ in., held together by screws and nuts on the light doors and $2\frac{1}{2}$ in. by $\frac{1}{4}$ in. held by bolts and nuts on the heavy doors. A gusset plate is inserted in the upper corner of the panel on one face only, butt-jointed to the flat, the whole assembly being stitch-welded to the main tubular frame. The flat on the other face is free of the main frame.

Inspection panels: These are of transparent plastic in aluminium frames held by patent rivets for easy removal. They are 1 ft. 6 in. by 6 in. on all doors, but may be increased to 2 ft. 0 in. by 9 in. on heavy type doors where size permits. They are set in the panels at an angle so that their rigidity will not distort the rubber when the door is opened.

Pivot assemblies: The doors are pivoted top and bottom and fixings to the structure of the opening provided. Details are shown in the drawings on the face of the Sheet.

Return spring and tension adjustments: The patented return spring is totally enclosed in the top of the vertical tubular framing with tension adjustments as shown in the drawings on the face. All heavy doors have the bottom pivot adjustment replaced by a spring unit similar to that at the top.

Sizes

Light doors: Up to 8 ft. 6 in. by 6 ft. 0 in. wide per pair.
Heavy doors: Up to 10 ft. 6 in. by 9 ft. 0 in. wide per pair.
The maximum size for a single light door is 8 ft. 6 in. by 3 ft. 0 in. wide, and for a single heavy door is 10 ft. 6 in. by 4 ft. 6 in. wide.

Fixing

The top plate is supplied for letting-in and screwing to a timber head. The bottom cone-type bearing on the light doors is for building in to concrete and the bottom plate of the heavy type is for fixing in concrete with expansion bolts.

Ordering

When ordering doors the following information should be supplied:

(1) Size of opening from floor to underside of lintel and between jambs at lintel and floor
(2) State whether doors are for internal or external use
(3) Type of traffic anticipated, as far as possible
(4) Composition of floor and lintel
(5) Whether black or white rubber panels are required (see *Finish*)

Applications

Rubber doors are suitable for factories, stores and warehouses, hospitals, hotels and restaurants. In addition, the doors may be fitted in sliding doors to reduce the opening to that required for small traffic; hung horizontally to form flaps to chute openings; used to seal openings between departments using a continuous conveyor belt; fitted horizontally above a pair of rubber doors of maximum height where exceptionally high loads occasionally have to pass through.

Finish

All metal parts are primed one coat of red oxide. Rubber panels are normally black but white panels are available for light-type doors only, in which case the metal is rustproofed and finished with one coat of cream cellulose.

Maintenance

The rubber panels may be kept clean by regular washing down with detergent. 10 per cent. glycerine in methylated spirits, regularly applied, will protect the panels from the deleterious effects of oil. Vegetable fats have no effect on them, but most animal and mineral fats should not be allowed prolonged contact with the panels. Brine also has no effect on the rubber, but chlorine will harden the rubber and rot the core.

Fire Resistance

The doors will not burn until melting point is reached.

Further Information

The manufacturer will advise on any problems connected with the installation of rubber doors.

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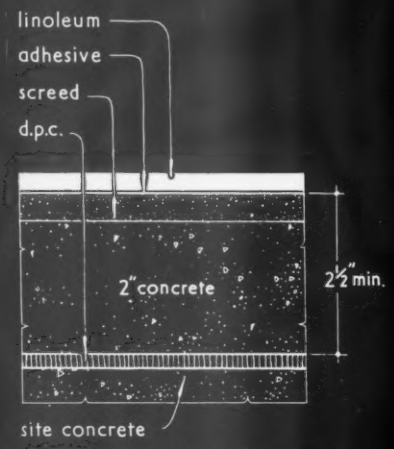
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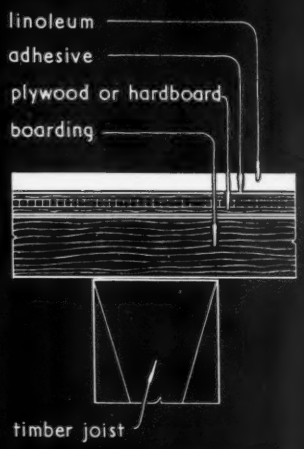
FLOOR FINISHES | LINOLEUM

The Architects' Journal Library of Information Sheets 462. Editor: Cotterell Butler, A.R.I.B.A.

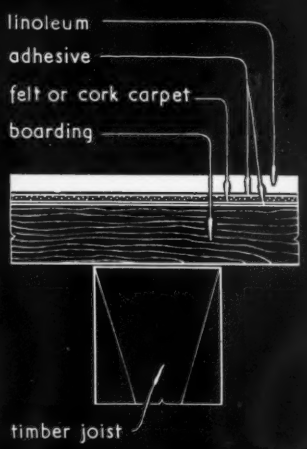
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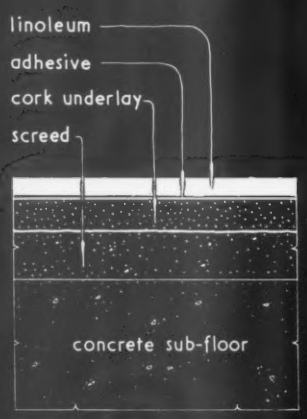
NEW CONCRETE (HARD WEAR).



NEW WOOD (HARD WEAR).



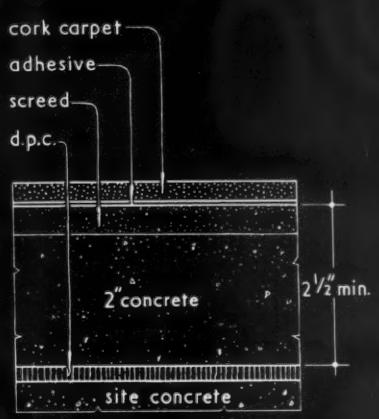
NEW WOOD (GENERAL PURPOSE).



OLD CONCRETE.

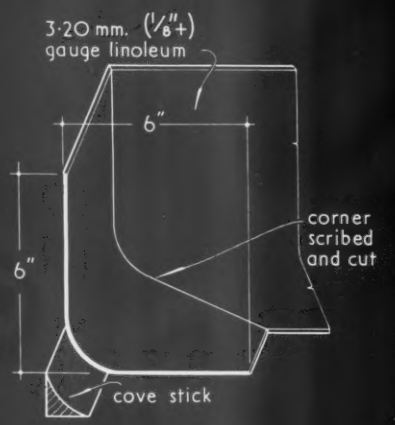


OLD WOOD.

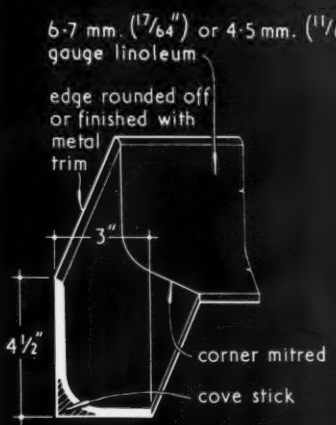


NEW CONCRETE (SOUND INSULATION).

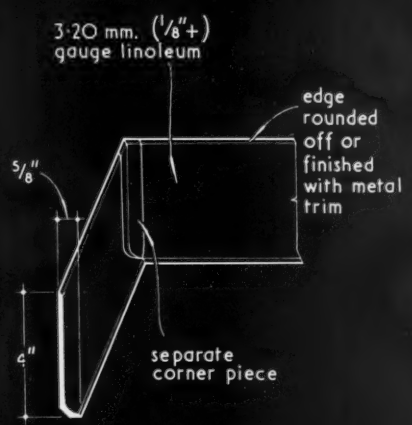
TYPICAL DETAILS FOR COVERING VARIOUS TYPES OF FLOOR.



formed on site from standard sheet



prefabricated (type 1)



prefabricated (type 2)

SKIRTINGS.

LINOLEUM: LAYING AND FIXING. Compiled from information supplied by The Linoleum Manufacturers' Association.

19.G2 LINOLEUM : LAYING AND FIXING

This Sheet, the second of a group on linoleum, describes the laying and fixing to sub-floors under various conditions. Information on the gauges and types of linoleum available and their uses is given on Sheet 19.G1; floor specifications on Sheet 19.G3. 19.G4 deals with specialised applications, such as to furniture and fittings.

General

Linoleum should be kept in a warm room (65° F.) for at least 24 hours before it is unrolled. All linoleum tends to stretch after it is laid, unless bonded by adhesive to the sub-floor. Where linoleum is laid loose on the floor, the seams should be overlapped and the final cutting carried out when the material has stretched the maximum amount. It is usual to lay the lightest gauge (1·60 mm.) and all printed linoleums in this manner. It is recommended that all thicknesses from 2·00 mm. to the heaviest gauge be bonded to the sub-floor. This prevents stretching and the penetration beneath the linoleum of dirt or moisture; it also prolongs the life of the material.

Preparation of Surfaces

It is important that all types of sub-floor should be thoroughly dry before laying. Evaporation of moisture from the sub-floor cannot take place once linoleum is laid.

Permanent precautions against rising damp must be taken in ground floors, and, in the case of all timber construction, adequate cross ventilation provided. All surfaces to be covered should be thoroughly swept to remove surface dirt. All cracks and holes should be filled and high spots removed on concrete floors. On wood floors loose boards should be nailed down, uneven spots levelled and any protruding nail heads flattened or extracted.

Fixing

Linoleum can be cemented direct to the surfaces of ventilated wood, concrete, stone, asphalt or metal floors, provided that the surfaces are clean, dry and free from chemicals, oil, paint or grease.

Felt: On all sub-floors of wood construction, dry felt paper should first be laid and cemented. The linoleum is then cemented to the felt underlay. This treatment counteracts seasonal movement in boards.

Linoleum: The first sheet of linoleum is cut to the required length, allowing a small surplus for exact fitting at room ends. A chalk line along the floor close to the outer edge of the linoleum, and a short chalk line at right angles to the length line across the linoleum and on to the floor, will serve as positional check marks.

Precise measure of the various contours of the walls should be transferred on to the sheet before cutting. To apply the adhesive, fold the length of linoleum back, exposing that half of the sub-floor to be spread. From the centre line of the floor spread adhesive in a thin even coat, leaving about a 2-in. margin from side seams unspread. This margin will be cemented when seams are cut. It is advisable to weight down the linoleum at the edges until the adhesive has set to ensure that it is securely fixed.

Care must be taken to see that check marks correspond before the linoleum is eased on to the adhesive. Repeat this operation on the other half of sheet and roll thoroughly with 150-lb. linoleum roller. Further sheets are laid similarly, allowing a $\frac{1}{2}$-in. overlap at the seams for cutting in. Continue laying until floor is covered. The overlapping edges of sheets are then cut in; this is done by using the edge of the overlapping sheet as a guide and cutting through the undersheet. While cutting, keep knife blade at right angles to the floor at all times. Lift the edges of sheet carefully and spread water-resisting adhesive along the margin not covered with adhesive. Press edges of seam down and roll thoroughly.

Adhesives

There are numerous cements, pastes, etc., available and it is important that the correct kind be specified for each type of floor or sub-floor. A full summary of adhesive types is given in Sheet 19.G3.

Skirting

Three types of skirting are illustrated on the face of this Sheet.

The first is formed from standard sheet material (in 8-ft. lengths for ease of handling) and is applicable to gauges up to and including 3·20 mm. ($\frac{1}{8}$+ in.). The cove stick supports the bend in the skirting. The corners are scribed and neatly cut and the whole secured to wall and floor with suitable adhesive. The wall edge is rounded off or finished with metal trim.

The other two drawings show two types of prefabricated skirting :

Type 1, made from 4·50 mm. and 6·70 mm. thickness linoleum, for use with linoleum of the appropriate thickness, and available in 6-ft. lengths. A wood cove stick supports the curve. Sizes of skirting can be varied to suit specified conditions.

Type 2 is a standard type of skirting manufactured in linoleum and various other materials.

Further Information

Pamphlet on Prevention of Dry Rot in Floors, etc.: This pamphlet, published by the Linoleum Manufacturers' Association, is available on request.

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The Linoleum Manufacturers' Association.
Address: 127, Victoria Street, London, S.W.1.
Telephone: Tate Gallery 4218/9.

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BUNGALOWS

1. at WESTCOTT, DORKING, SURREY

designed by BEVIL GREENFIELD

(of FREDERICK BARBER and PARTNERS)

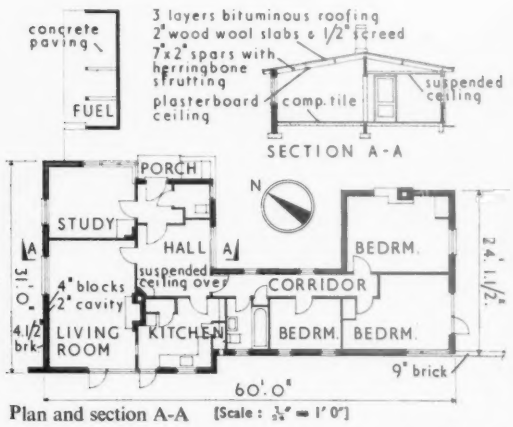
2. in SPELDHURST ROAD, SOUTHBOROUGH, KENT

designed by IAN WARWICK

The house, at Dorking, for the architects' own occupation, was planned on one floor for "ease of running," and convenience of a young family. The study and cloakroom are placed near the front entrance to avoid interference with the remainder of the house and the bedrooms and bathroom are in a separate wing. The kitchen, which is adjacent to the dining area in the hall, allows a good view of the garden at the rear of the house. The architect prefers privacy and closed rooms to open planning.

The house at Dorking from the south-west.

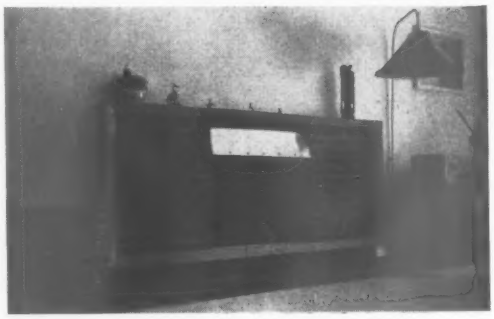




Plan and section A-A [Scale: 1/8" = 1'0"]



Right, the bedroom wing from the east. Below, from the north-west. In the foreground are the windows to living room and kitchen.



Left, the living room fireplace, which has a surround of exposed aggregate concrete.

BUNGALOW

I, at DORKING, SURREY

designed by BEVIL GREENFIELD

SITE.—The site was levelled out of the hillside as a tennis court about 45 years ago and has a difficult access from a narrow lane which is nowhere less than 7 ft. below the general site level. There is an open view to the north, across a valley to the escarpment of the North Downs from the centre of the site only. Otherwise the site is enclosed by mature trees. To get the benefit of the views to the north and north-west the house has been placed far back on the site, making it necessary for the garage and drive-in to be connected only by a path to the house.



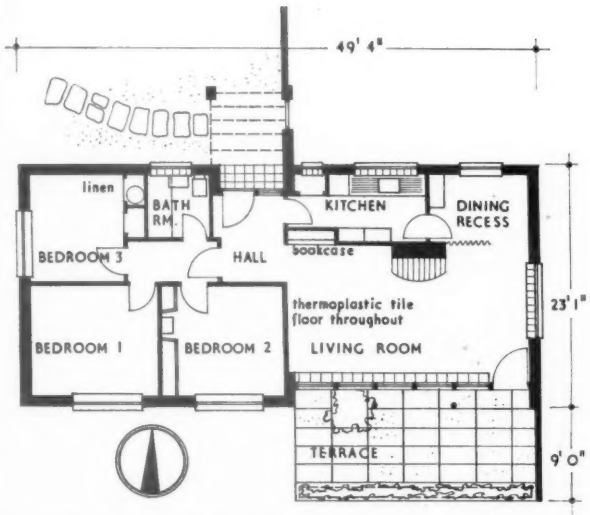
CONSTRUCTION.—External walls are of load-bearing cavity construction; the outer skins of bricks and the inner skins of breeze blocks. Spine walls are in brickwork. Foundations are reinforced over the parts of the site which are of made-up ground. Roofs are of timber.

FINISHES.—Externally, walls are faced with light-coloured bricks, colour-washed in places, as a contrast to the dark background of trees, which are mostly evergreens. Fascias are in natural red cedar with gutters formed behind. Paintwork externally and internally is mainly white and pale grey. Coloured tiles, exposed aggregate concrete and slate is used on fireplaces. Floor finishes include thermoplastic tiles, cork tiles, linoleum and carpets.

SERVICES.—Heating is by open fires and electricity. Hot water is provided by a solid fuel stove and by electricity, and cooking is also by electricity. The contract price, excluding garage, site works and water supply to site, was £2,560. The general contractors were Brewster Bros. For sub-contractors, see page 414.



Left, from the south-west, showing bedroom windows on the left and the paved terrace beyond. Below, the south-east corner of the house, showing living room windows and the 4½-in. brick screen wall.



Ground floor plan [Scale : $\frac{1}{8}$" = 1' 0"]

BUNGALOW

2. at SOUTHBOROUGH, KENT

designed by IAN WARWICK

GENERAL.—This one-storey house near Tunbridge Wells has been built for three elderly ladies, one of whom is crippled. There is a distant view to the south over Kentish hills, and a view over fields to the east. The architect was asked to provide a fairly open plan, but with bedrooms and bathroom as much secluded as possible from the living area. There is only one entrance door for visitors and tradesmen, under a covered porch. The house is built with 11-in. cavity load-bearing brick external walls, a timber roof and a concrete floor finished throughout with thermoplastic tiles. Internally rooms are plastered and finished with emulsion paint. The house is heated by a slow-combustion stove in the living room, a gas wall radiator in the hall and thermostatically-controlled electric radiators elsewhere. Hot water is provided by a multi-point gas heater. The electricity supply required a special transformer, and a septic tank was needed for sewerage. An entrance courtyard is to be formed at a later date by the addition of a garage and enclosing walls. The house is 987 sq. ft. in area and the contract price was £2,500. The general contractors were Messrs. L. A. G. Hawkes. For sub-contractors, see page 414.



FACTORIES

in CAXTON WAY, STEVENAGE NEW TOWN, HERTS

designed by D. P. REAY, chief architect, Stevenage Development Corporation

L. G. VINCENT, deputy chief architect, L. W. AKED, group leader

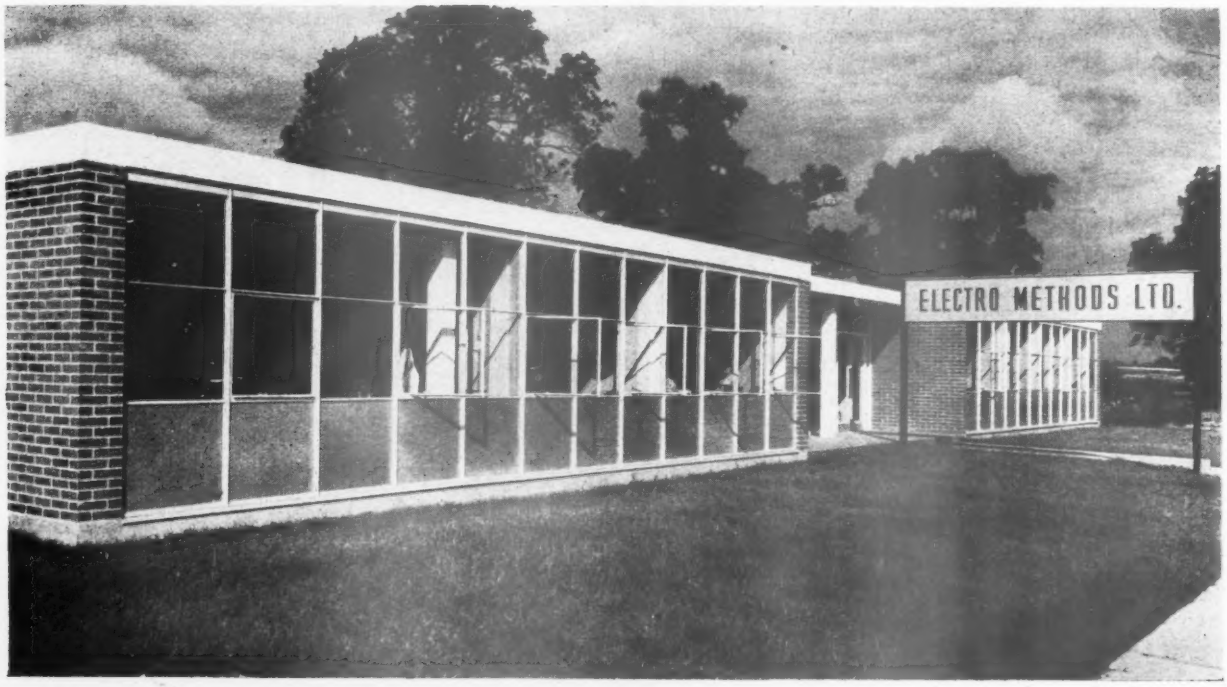
J. GOWAN, M. WHITWORTH and B. J. ALFORD, assistant architects

consultants, concrete frame, Messrs. R. E. EAGAN

quantity surveyors, GARDINER and THEOBALD

The two small standard factories illustrated on this page and the following two pages are on the new industrial estate, which lies to the west of the Great North Road at Stevenage. Both factories, as will be seen from the plans, are similar in area and vary little in layout. Basically, these sectional factories are built in blocks with an area of 20,000 sq. ft. These blocks can be divided into units of 10,000 or 5,000 sq. ft., each with its own office and sanitary accommodation. The first factory to be illustrated is occupied by Electro Methods Ltd., who manufacture electro-magnetic relays and mercury switches. The clients required a factory area of 10,000 sq. ft., which could be extended to 20,000 sq. ft. at a later date. The production area is planned symmetrically, to allow for future division into two small units of 5,000 sq. ft., if required.

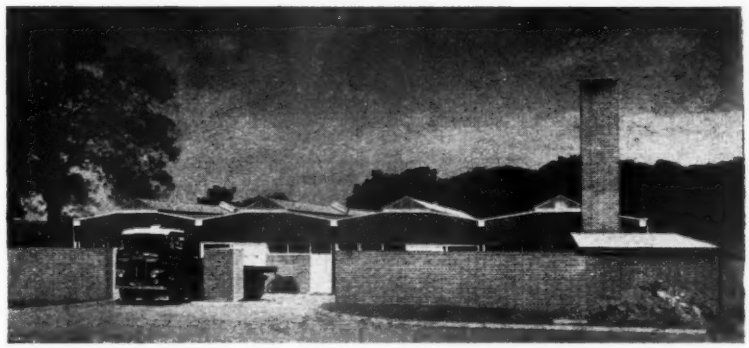
The office block from the east.



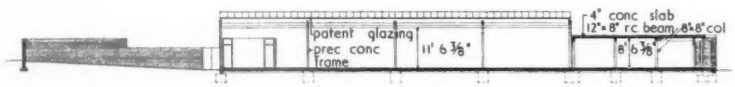


SITE.—The site layout was determined by the availability of roads, services and the client's wish to extend the factory in the future. The position of the main access road and the rear service road guided the planning of the factories.

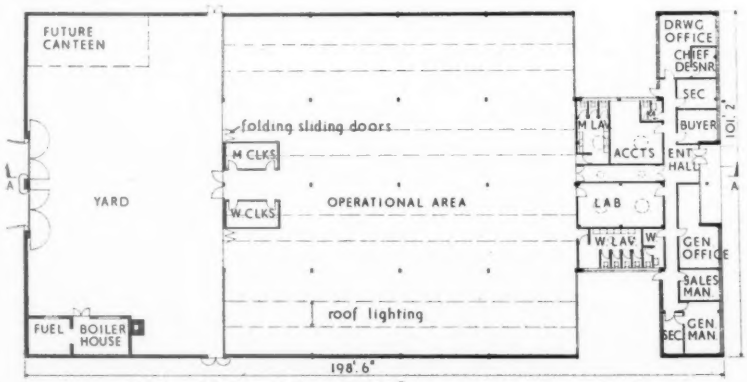
PLAN.—The sectional factory was planned as a result of research into plan forms comprising a production area of 5,000 sq. ft. and an office block of 1,500 sq. ft. designed as a unit and intended to be linked in groups of four. Access to the office wing is from the main road to the east and to the goods entrance and boiler house from a service road to the west. The requirements of the manufacturing process were for a grid of 25 ft., very good lighting, overhead electric trunking and provision for etching glass and paint spraying. The factory for Fleming Radio (Developments), Ltd., plan overleaf, has a canteen and boiler house block added to the west of the production area. This block also contains cloakrooms and a test room on the roof. Future extension to the factory is to be on the south side.



Top and above, the yard and service entrance to Electro Methods' factory from the west.

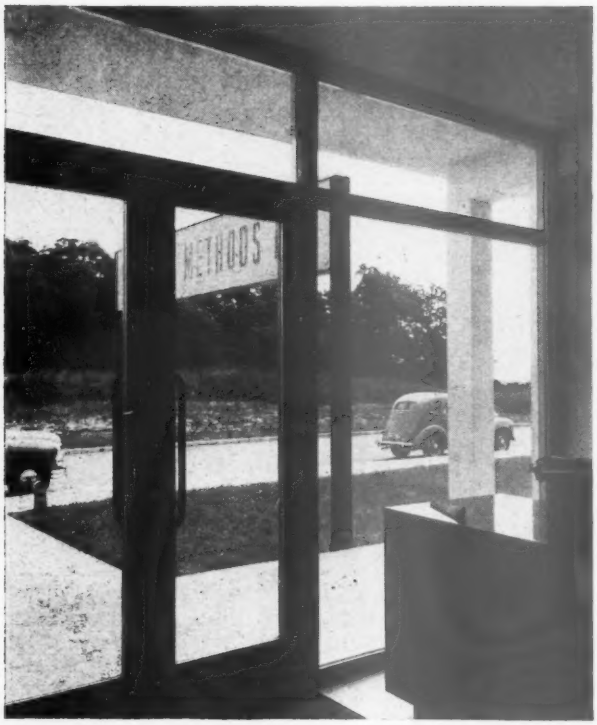


Section A-A



Ground floor plan (Electro Methods' factory) [Scale : $\frac{1}{16}$" = 1' 0"]
(North Point similar to Fleming Radio factory, plan overleaf)

CONSTRUCTION.—Production area and office block have precast concrete frames, the former on a 25-ft. square grid and the latter with a 12-ft. 6-in. by 18-ft. grid. Over the production areas the frame is pitched at 10 deg. with valley beams and purlins to receive the roofing finishes and the 8-ft. span aluminium roof lighting. The office blocks have roofs of 4-in. *in situ* concrete slabs poured on 2-in.

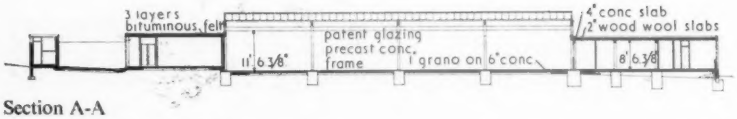




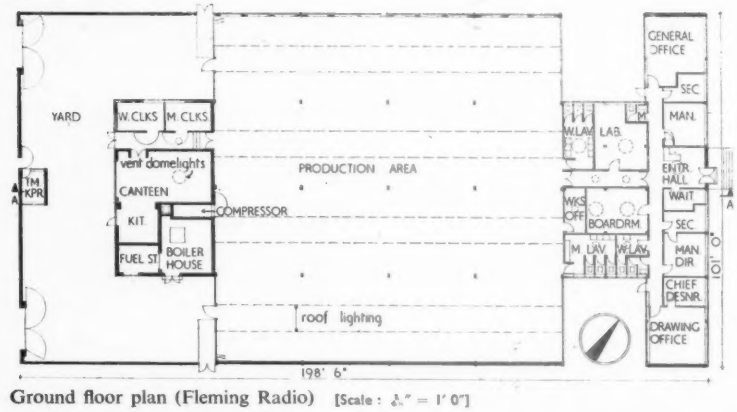
FACTORIES

at STEVENAGE NEW TOWN, HERTS

designed by D. P. REAY, chief architect



Section A-A

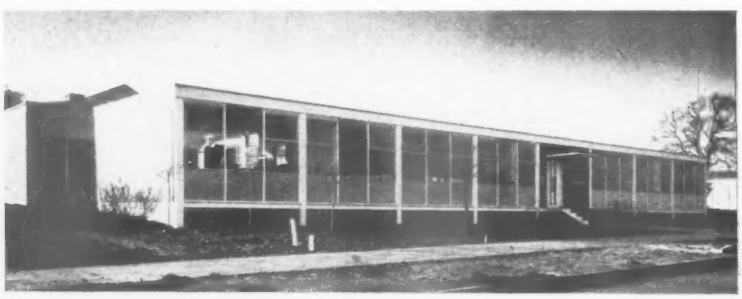


Ground floor plan (Fleming Radio) [Scale : 1/16" = 1' 0"]

woodwool as permanent shuttering. Bases are cast *in situ* with pockets to receive the precast frame and ground beams span between bases to carry 11-in. cavity brick walls or full height glazing. Windows of office block have a 4½-in. brick wall internally to sill height.

FINISHES.—Roofs are finished with 2-in. woodwool slabs and three-ply felt with grey mineral finish over production area and the roof slab over the office block is screeded to take felt. Internal walls are of 4½-in. brickwork, plastered. The front elevation to Electro Methods is glazed, with the columns set back 1ft., whereas in the factory for Fleming Radio the concrete frame is exposed on the east elevation. The construction and finishes are similar in most cases for both factories. The contract price for Electro Methods' factory was £31,902 (per cub. ft. 2*s.* 10½*d.* and per ft. sq. 48*s.* 4*d.*), and for Fleming Radio it was £35,011 (per ft. sq. 47*s.* 10*d.*).

The general contractors in each case were Gilbert-Ash, Ltd. For sub-contractors, see page 414.



Top, two views of Electro Methods' office block: left, the entrarce doors and hall, right, the accounts room; right, the office block of Fleming Radio factory from the east.

TECHNICAL SECTION

The publication of the Report of the Joint Committee on Tendering Procedure comes as an expected disappointment. Though the terms of reference which the members proposed (" to review tendering procedure generally ") are wide enough, it is evident that the members have not in fact taken it upon themselves to probe the assumptions on which present procedure is based. There is little in the Report to indicate the profound changes through which building is passing in its advance towards full industrialization, and were it not for the printed date the casual reader might carry away the impression that the Joint Committee are laying down conditions for the return to normal after World War I. While co-operative discussion between the representative bodies of architects, surveyors, and contractors (to be continued in future meetings) is a matter for congratulation, we must deplore the inattention to pioneer work undertaken by the MOE and the Hertfordshire County Council. Space and time prevent further discussion of the Report this week, but it is our intention to take it up in more detail in a subsequent issue. (It can be obtained, price 6d., from the RIBA, NFBTE or RICS.)

This week's special feature

2 PLANNING: GENERAL legislation

The number preceding the week's special article or survey indicates the appropriate subject heading of the Information Centre to which the article or survey belongs. The complete list of these headings is printed from time-to-time. To each survey is appended a list of recently-published and relevant Information Centre items. Further and earlier information can be found by referring to the index published free each year.

This week Ernest Watkins outlines the provisions of the new Town Planning Bill which received its second reading on March 15. Those parts of the 1947 Act which set in motion the preparation of development plans by local authorities remain intact, for this Bill is mainly concerned with finance—with the compensation of those who have suffered, or will in the future suffer, restriction of their freedom to profit by the transference of ownership, or to develop land. The Bill appears to declare against the view implicit in the 1947 Act—that land is a common heritage, not a private possession.

The Town and Country Planning Bill of 1954 is a measure, and a complicated measure, almost entirely concerned with the finance of planning, that is, with what might be called the positive cost of bringing land into public ownership for development and the negative cost of compensating the private owner of land where the further development of his land is forbidden or restricted. It is therefore supplementary to the main 1947 Act.

It is supplementary in two ways. First, it keeps intact, and therefore relies upon, the legal mechanism for the control of the development of land laid down by the 1947 Act, the various steps that must be taken before " development " can take place. Secondly, it still bases its compensation plans very largely on the £300 million Compensation Fund set up by the 1947 Act, as representing the then value of all existing rights to develop land freely

possessed by those who then owned it.

It is also supplementary to the Town and Country Planning Act passed last year. That Act effected two things; it brought to an end liability to pay a development charge on planning permission being given. It also put an end to the Government's liability to pay out the whole of the £300 million as from June last year. The £300 million Compensation Fund still exists, in theory. Its disbursement, piecemeal, will now be regulated by the provisions contained in this Bill.

The Bill applies exclusively to England and Wales. Just as in 1947, two Planning Acts were passed, one for England and Wales, the other for Scotland, so the 1954 revisions will be dealt with in the same way. The Bill now under discussion is that which applies to England and Wales; it is probable that the Bill for Scotland will follow the same lines.

The Bill is divided into six Parts, containing 73 Clauses, and has ten Schedules.

Part I deals with those cases in which an immediate payment from the £300 million Compensation Fund can be claimed; that is, with those cases where a claim on the Fund has been made and the claim can be said to have matured. There are four groups of case, as follows:

Case A.—Where a development charge has already been paid under the 1947 Act. In general, the owner of land who has (or whose predecessor has) paid a development charge will be able to claim from the Fund a cash payment equal to the development charge itself, up to the amount of the admitted claim.

Case B.—Where land has already been compulsorily acquired from the holder of an admitted claim, or where he has sold the land privately at a price which excluded its development value. In general, the payment to be made from the Fund will be equal to the amount of the admitted claim, less any excess over the restricted value of the land paid to the owner on the sale or when it was compulsorily acquired. Owners who got a price above the restricted value of their land will not, in effect, get paid the development value twice over.

Case C.—Where the land concerned was disposed of by gift (but not by will). The payment will be the amount of the admitted claim.

Case D.—Where the admitted claim was bought by someone who had no interest in the land itself (claims could be freely sold separate from the land, before last year's Act). Again, the payment to be made will be the admitted amount of the claim.

In general, claims for immediate payment can only be made (*a*) where land was acquired by a public authority, in respect of transactions made between August 6, 1947, and the date when the new Bill comes into force, and (*b*) in other cases, in respect of transactions which took place between July 1, 1948, and November 18, 1952 (the date when the Government's White Paper outlining these proposals was published). Payments carry interest at the rate of 3½ per cent. from July 1, 1948, to the date of payment, or June 30, 1955, whichever is the earlier. This part of the Bill also contains other clauses dealing with the various contingencies and complications that can arise out of the four Cases. The Bill also provides for the making of Statutory Regulations governing how and when claims for payment are to be submitted and proved.

Part I deals with transactions that are completed. Part II deals with transactions in the future, cases that arise where a compensation claim arises on a refusal, or on a conditional grant, of planning permission, and where there exists in respect of that land an admitted claim on the Compensation Fund which has not been wholly discharged by a cash payment under Part I. In other words, admitted claims on the Fund not paid out immediately under Part I of the Bill are to remain, for the future as credits available to compensate the owner of the land (whoever he may be) as and when his right to develop the land is in fact cut down by a planning decision. Further, these admitted claims are to be augmented by one-seventh of the total, to represent a rough approximation of the interest already deemed to have accrued.

In broad terms, this part of the Bill provides that claims for compensation following on future planning restrictions can be made and be met in full while there remains sufficient of the admitted claim on the Fund to meet them. It contains 18 clauses designed to cover the various contingencies that can arise. There are also provisions in this part of the Bill under which any compensation paid on these grounds must be repaid if in the future new developments are permitted on the land (for the obvious reason that the original payment was compensation for a restriction; if the restriction goes, so does the justification for the retention of the compensation).

In general, then, Parts I and II of the Bill deal with existing admitted claims on the Compensation Fund, and land that has the benefit of those claims. Parts III and IV deal with the basis of compensation where there is no possible claim on the Fund, Part III where land is compulsorily acquired outright, Part IV where planning permission is revoked or modified, to the detriment of the use of the land by its owner.

Under Part III, where land is compulsorily acquired by a local authority after the Bill comes into force, the owner will continue to receive no more than compensation based on its existing use and valued under the provisions of the 1947 Act (that is, on 1947 levels of value). If there happens to be any outstanding balance of an admitted claim, he will receive that, too. In addition, he will receive compensation for the current value of improvements made, with planning permission, after the 1st July, 1948, and before the date of the notice to treat.

This Part of the Bill also contains a Clause (Clause 37) of value to prospective purchasers of land. A prospective purchaser may ask a local authority if it proposes to acquire compulsorily the land he contemplates buying. If it says it does not and he buys, then, if within three years it changes its mind and acquires, then his compensation must take account of any planning permission given after 1948; that is, his compensation will not be restricted to values based upon the existing use as it was in 1947. Clause 38 also extends this principle of taking planning permissions granted since 1948 into account when assessing compensation to two other cases, developments covered by Schedule 7 to the 1947 Act and developments which take place on land ripe for development as at 1st July, 1948.

Part IV of the Bill makes changes in the main Section of the 1947 Act, Section 22, which deals with the compensation to be paid where planning permission is revoked or modified. Broadly speaking, Section 22 limited compensation payments to cases where a development charge had been paid, or where there was special exemption from liability for the charge under the Act itself. The Bill would abolish this limitation.

It leaves the owner free to claim compensation where he can show that he has suffered loss which is directly attributable to the revocation or modification and, an important point, this right to claim compensation is not dependent on there being an "unexpended" claim on the Compensation Fund. It is absolute, provided there is damage. There are in this Part provisions for the repayment of the compensation if the cause of the damage is removed, as in the case of payments made under Part II.

Part V is another complicated section of the Bill. In outline its effect is to give the right to claim compensation for damage caused by revocation or modification of planning permission in retrospect in those cases which have arisen since 1948 and when Section 22 of the 1947 Act operated as a bar. It is an attempt to give equality of treatment to all, to wipe out what might be called the "restricted compensation" period between 1948 and 1954. It also

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gives the Minister fresh power to review the planning decisions themselves when claims for compensation based on them are submitted to him under this Part (with, of course, the possibility that the revised decision may eliminate the claim for compensation).

Part VI of the Bill is the inevitable miscellaneous section. The principal points covered are these:

Clause 52. Liquidation of outstanding liabilities for development charge, including those assessed on agricultural workers' cottages (where, under the 1947 Act, the development charge was determined but not collected).

Clauses 53 and 54. These cover the Treasury grants to local authorities for planning purposes. They leave the full Exchequer grant of 90 per cent. payable only in respect of a local authority's expenditure in the development of war-damaged areas under the 1944 Act. In other cases they stabilize the grant at a uniform rate of 50 per cent.

Clause 56 amends the existing law (set out in the Compensation (Defence) Act, 1939, and the Requisitioned Land and War Works Act, 1948) governing the assessment of compensation for requisitioned land.

Clause 57 abolishes future development charge royalties in respect of the working of minerals and the following clause gives the Lands Tribunal power to modify mining leases made before November 18, 1952.

Clause 60 enables outstanding payments due to the Central Land Board to be registered as local charges on the registers maintained by local authorities.

Clause 61 deals with the monopoly value attached to licensed premises.

Clause 65 provides for the ultimate dissolution of the Central Land Board and for the transference of its remaining functions to the Minister.

The ten schedules of the Bill are mostly concerned with providing working rules for resolving the various different kinds of conundrum which have arisen as a consequence of the Act of 1947. Among them are given the method of apportionment of admitted claims on the Fund when the land itself is now split between various owners (Schedule 4), the methods of calculating the present value of previous development in land (Schedule 5), and the methods of dealing with compensation for severance of injurious affectation when land is compulsorily acquired.

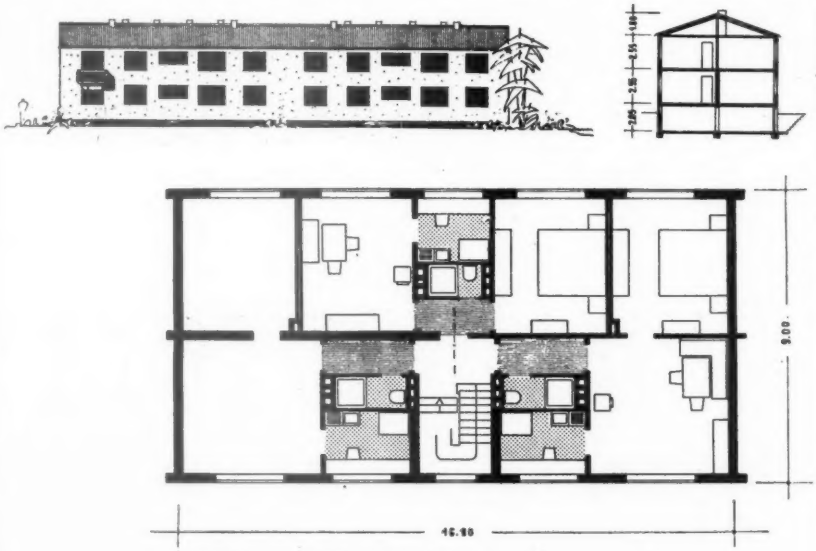
In conclusion, it is advisable to say (perhaps it is already apparent) that this summary can be no more than a guide to what the Bill contains. It cannot hope to be an exhaustive account of all the points and circumstances provided for in the Bill, or of the procedures to be followed in each particular case. Those searching for an answer to their particular problems must be referred to the actual wording of the Act of Parliament which will, presumably, in the end emerge from this Bill.

10 DESIGN: HOUSING

the German experiment

It is well known that American aid is a vital element in the vigour of German reconstruction, but the ability to think afresh about old problems also plays its part. Below is a review of "Neuer Wohnbau" a German publication describing a housing competition in which firm contractor's estimates had to accompany submitted designs.*

In the summer of 1951, the Housing Ministry of the German Federal Republic, in co-operation with a special Mission of ECA (the American Economic Co-operation Administration), sponsored a competition for 15 "residential areas" (housing estates) which were to serve as models and guides for future low-cost housing in Western Germany.



One bedroom flat, floor area 417 sq. t.

The ECA provided 37½ million DM out of ERP funds, this being the sum required to pay for actual buildings, while the municipalities concerned were themselves to finance roadworks, sewerage and all other services. The ECA money was to be allotted according to the size of the residential areas, and the aim was to provide as great a number of dwellings of a given floor area (average, 540 sq. ft.) as possible.

To this end an unusual and interesting step was taken: architects were asked not only to submit schemes and reports, but also a firm price based on competitive tenders and binding on the builder who priced the winning design. Specifications, priced schedules, and calculations to show what the economic rents would be were required, and close co-operation between architects, contractors and economists was thereby stimulated.

* Publisher, Otto Maier Verlag, Regensburg. A summary in English is published by the Ministry for Housing of the Federal Republic under the title "Low Cost Housing in Germany."

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Many towns offered sites, but only 15 of these—one a bombed site in the centre of Bremen, the others virgin sites on the outskirts of existing towns—were accepted as suitable. They had to be large enough to hold 150-280 dwellings each, and preferably to be near centres of industry.

This book is not merely a report on the competition; by its close analysis of all aspects of this subject, it constitutes a handbook on low-cost housing, its problems and recent developments, in Germany today. The suggestions of all the competitors, not only the winners, have been taken into consideration, and an attempt has been made to make use of all the ideas and work included in the submitted plans. Different chapters and different authors deal with housing and town-planning in general, housing estates and their special problems, such as densities, development of bombed sites and of virgin land, analysis of type plans, construction, cost, standardization, modular planning, the old question of house *versus* flat, and, lastly, the problem of design.

Of the 725 competitors, 90 were prizewinners. It took the assessors, five Americans and eight Germans, 40 days to tour the 15 chosen towns. A very thorough preliminary evaluation and examination by local experts was first of all undertaken. They studied and criticized the plans and prepared detailed reports on tenders and specifications before the assessors came to pass their own judgment.

This was made under the following five headings:

(i) Layout and integration into the existing town pattern;
(ii) The type plans;
(iii) Building costs;
(iv) Building construction, services and finishes, and standardization;
(v) Design.

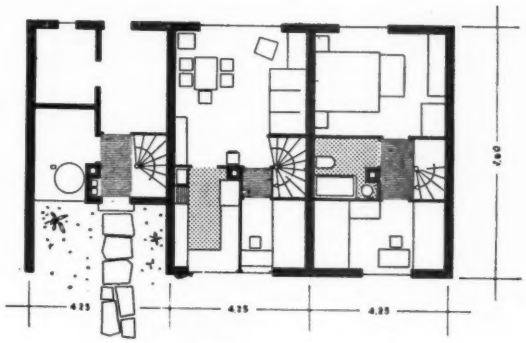
The touring commission, by using this preliminary work as a basis (prepared in form of standardized charts), then decided on the spot on the merits of the submitted schemes.

Between the date of publication of the competition and its closing, all prices in the building industry had risen by 7 per cent. But it was subsequently found that, as a result of hard thinking put into this competition, the winning designs would still be approximately 10 per cent. cheaper than any housing ordinarily built at that time. In fact, it is expected that the final result will be even more favourable. This shows what can be achieved by careful and detailed work, based on standardization and research, and it was proof of the idea behind the competition that, besides alleviating the present housing shortage, it should produce new ideas, and new methods of planning and construction, which would influence the building industry and the future building programme of the whole country.

The 15 chosen schemes are described in great detail, including, in each case, the social conditions of the town, the number of inhabitants, the main industries, the siting and layout of the new estate, the type plans, construction and materials used, densities, the gross and the nett floor areas, the cost of the site, the price of the complete project and the rents resulting from it. Other chapters, which also include much statistical data and graphs, deal with such details as sound proofing, different forms of heating, roofing and other finishes. Plans for labour-saving kitchens with equipment and the correct worktop space are shown, and many combinations of plumbing units, etc., are dealt with.

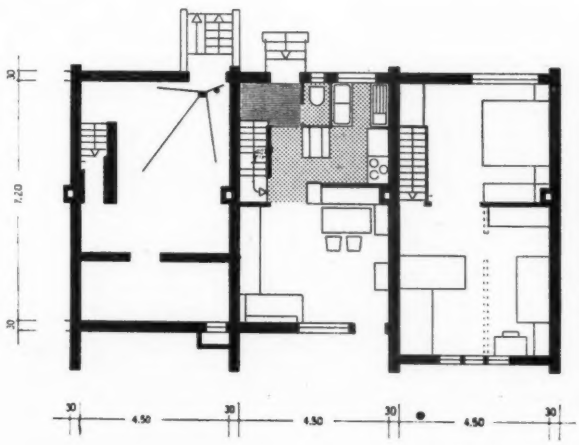
Four different materials for roofing were considered. Much stress is laid on the use of standards, but no prefabricated houses were proposed to be used in the schemes submitted. The chapter on town-planning gives many illustrations of the layouts of various estates, with critical explanatory notes on their merits with regard to special



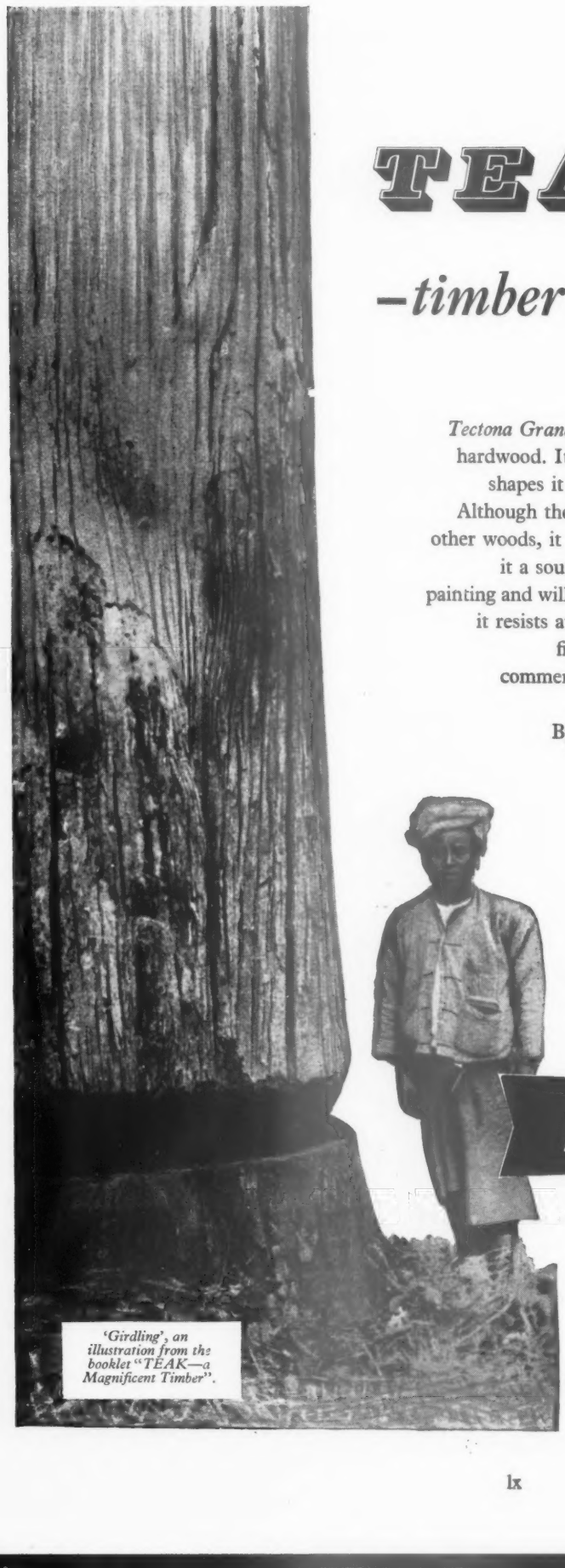


Two storey terrace houses and semi-basement, floor area 560 sq. ft. (excluding basement)





Bed-sitting room flats in two storey block with cellars. Upper storey convertible into bedroom floor at later stage, and thereby flats into terrace houses. Floor area per flat 348 sq. ft.



'Girdling', an illustration from the booklet "TEAK—a Magnificent Timber".

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effect, and their integration into the general pattern of the town plan. It also deals with the roads, railways and the general question of communications. The required, or better, the permitted, density of these new estates is to be 60 units per 2·4 acres (about 24 units per acre). A large selection of individual type plans is given. The average size of dwellings is smaller in Germany than in this country. The minimum floor area of a one-storey terrace house in Germany of about 430 sq. ft. is considered sufficient to afford sleeping and living accommodation for five people. The minimum floor area per person according to German opinion is 172 sq. ft., but at the same time it is conceded that for comfortable living this figure should be more like 183 sq. ft. The storey height (*i.e.*, floor to floor) is now reduced to 9 ft. compared with the former standard height of about 10 ft., thus saving 3-4 per cent. of building costs in a two-storey building. Minimum sizes for bedrooms, like those in this country, do not exist in Germany, where in smaller units the sleeping accommodation is not always separated from the living area. Therefore the accepted classification of houses in Germany is according to the number of beds in the unit and not of bedrooms. Also, dwellings very often have no direct access to bedrooms from hall or landing except through the living room. Rarely are there full scale (5 ft. 6 in.) bathtubs; either shower baths or sitz baths take their place. On the other hand, the rent in these newly built estates is less high than English rents in council houses. For example, the monthly rent for a two-room unit is 50 DM (about 83s.). That is roughly 14 per cent. of the monthly income of the occupier and equivalent to the value of 34 of his working hours. The monthly rent per sq. m. is given in each case and varies from 0·95 DM to 1·21 DM (1 DM is about 1s. 8d. and 1 sq. m. = 10·7 sq. ft.).

The surprising and rather unexpected general conclusions to be drawn from this competition are:

1. The architecture of Nazism is dead. Nothing remains of the bombastic neo-classicism propagated by Hitler and used in the buildings between 1933 and 1945. The pre-war Bauhaus-achievements proved to be of greater influence than all propaganda, and its ideas are still alive today.

2. Winning designs were of less high standard, architecturally, than many of those not premiated. This shows that economic planners are not always good designers. And as economy was one of the main requirements, many a design of architectural merit fell by the wayside.

3. There was nothing startlingly new or revolutionary in any of the 725 competitions submitted. Although much valuable spade work was done, no fundamentally new ideas or new ways of building emerged to suggest a break with past or present development.

Although Western Germany has to build at least 400,000 units per year up to 1956, in order to alleviate her most urgent housing shortage, the author, dealing with this question, warns against over-cheap building. The comfort and happiness of the people, who are going to live in these units, should not be sacrificed for comparatively small savings in initial expenditure. The aim is everywhere to plan for mixed development of houses and blocks of flats, the whole well-integrated into the general lay-out of the town, and surrounded, or interspersed, by plenty of open space. Building research has to be the basis of all new planning, and there is no room nowadays for a purely æsthetic or artistic outlook unless it is coupled with down-to-earth thinking. The dire need for building more houses, in a shorter space of time than was ever required before, takes the problem, and its solution, in Germany as in many other countries, out of the hand of the private developer and puts it into the hand of the community. Housing today is one of the most important social problems, and the State has to give help.

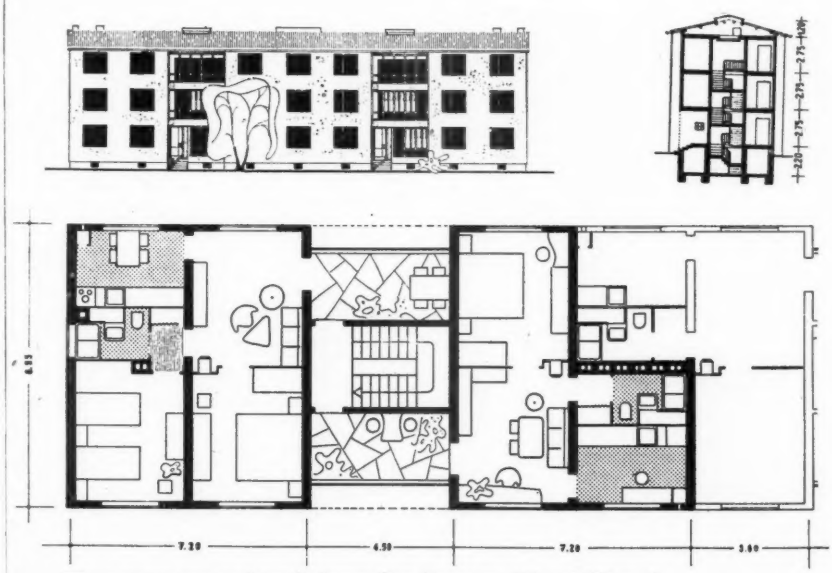
Nothing comparable to the English Town and Country Planning Act, 1947, exists in Germany, and no official body, like the MOHLG, deals centrally with these questions. Recent English publications like "Houses 1952," "Design in Town and Village," are based on similar ideas to those that led to this large scale competition in Germany. But it is noteworthy that the report on it is not an official document but a private publication by 28 authors. Neither is it anything like a manual setting semi-obligatory standards to be applied throughout the country. It is a critical summary of the result of an unique competition in which 725 architects took part and which has yielded most valuable material. The English reports give the results of investigations, and include only plans, schemes and suggestions which can be recommended and easily applied by all concerned.

This book is more a treatise on individual housing estates, dealing with all aspects of such schemes, and is therefore more difficult to apply generally. The very interesting plans and illustrations would be more useful if there were cross-references as a tie-up between the general plans of the schemes and the individual plans of the units. An index would be useful too.

This experiment, which has never before been made, shows, in the editor's summing-up, that co-operation, building research, exchange of ideas and team-work, are today's (and, even more so, tomorrow's) solution of the whole housing problem.

The book ends with an appeal to everybody, professional people and the general public alike, to assist with positive criticism of the published work so as to stimulate fresh thought and new ideas which may prove useful in achieving further progress. Such additional criticism and fresh suggestions, as well as all practical experiences, gained from the building of the 15 estates, will, in due course, be carefully scrutinized and the results made the subject of a second volume.

A bibliography of German and foreign publications on housing and town-planning and a short extract from the German building regulations and by-laws is appended.



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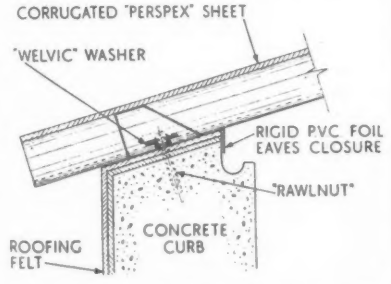
From the Industry this week, Brian Grant reports on a new air filter and the use of plastics in roof lighting.

FILTERS FOR AIR-CONDITIONING

The oil-wetted type of metallic air filter was introduced to this country thirty or more years ago, and since that date a number of improvements have been made, nearly all with the object of reducing the amount of time which has to be spent on maintenance. In the latest version, known as the Reciprojet, the cleaning of the filter cells is entirely automatic, and is controlled by a time switch. The filter cells are attached to two endless chains and there is a large oil tank at the base of each section. At regular intervals (which can be adjusted) an electrically-operated time switch starts a small motor which moves the filter columns and also the oil pump motor. The dirtiest filter cell is then scoured with oil jets which move back and forth across the face of the cell. When the filter columns have been moved by a distance equal to one cell a limit switch stops the two motors and the time switch takes over once more. The oil in the system is continuously filtered, and the dust and other particles removed from the incoming air are allowed to settle in sludge tanks, which need cleaning out at comparatively long intervals. (*The Visco Engineering Co. Ltd., Stafford Road, Croydon, Surrey.*)

ROOF LIGHTING WITH PLASTICS

Perspex corrugated sheet was introduced shortly after the end of the war, when its high light transmission factor—over 90 per cent.—and the ease with which it could be fitted, made it become quite well established in a comparatively short time. With the increasing use of flat roofs, either in reinforced concrete or with metal decking, a system has been evolved (started by the Middlesex County Council, who developed it for roof lighting) whereby corrugated Perspex sheets are applied in curved form to produce lantern lights (see section below).



The curb upstands and gables supporting the sheets can be formed in either concrete or light metal pressings. Internal clear widths of lanterns can be obtained up to 8 ft., while the length is unlimited. Full daylighting is given over the whole area, without interruption by glazing bars or framing, and it is also worth noting that Perspex has a greater ultra-violet light transmission than glass. The material is light in weight, about one quarter that of ¼-in. wired glass, and there is thus a saving in structural weight, more readily shown with a metal decking than with a concrete roof, though there is actually a saving in both types of construction.

A number of methods can be used for securing the curved sheets to the lanterns, either by fixing the sheets direct to the curbs, or to an extruded aluminium alloy bearing member. Standard nuts and bolts can be used with a shaped washer in Welvic (another ICI plastic), or with the same washers and Rawlnuts. The washers make certain that the fixing is watertight, and at the same time allow for thermal movements. Where the lantern is to be dust-tight, the gaps at the eaves level caused by the corrugating can be filled in by a special eaves closure piece moulded to conform to the corrugations and held in position by the same fixings as the sheets themselves.

So far as cost is concerned, the manufacturers admit that there will be comparatively little saving in first cost per square foot, but they point out that owing to the high light transmission factor a smaller area of Perspex is required than when using glass, that there is a saving in structural weight and that both maintenance charges and breakage costs should be reduced. (*ICI Ltd., Plastics Division, Welwyn Garden City, Herts.*)

Buildings Illustrated

Lafone Secondary Modern Girls' School, Boundaries Road, Feltham, Middlesex, for the Middlesex County Council. (Pages 394-397.) Architect: C. G. Stillman, F.R.I.B.A., County Architect; E. Mason, A.R.I.B.A., Area Architect; L. J. Fox, A.R.I.B.A., Architect-in-charge; Quantity Surveyors: Mercer & Miller. General Contractors: Taylor Woodrow Construction Ltd.; Sub-contractors: plastering, Alan Milne Ltd.; floor and wall tiling, Parkinsons (Wall Tiling) Ltd.; floor and sill tiles, Langley London Ltd.; painting, C. & T. Painters Ltd.; glazing, Aygee Ltd.; precast floor units, Fabricrete Products Ltd.; facing bricks, Henry J. Greenham (1929) Ltd.; structural steelwork, Boulton & Paul Ltd.; prestressed concrete floor and roof units, Concrete Ltd.; foundation bricks and primrose facings, W. T. Lamb; ironmongery, James Gibbons Ltd.; precast concrete facing slabs, W. S. Try Ltd.; metal door frames, H. Hope & Sons; drinking fountains, T. A. Harris Ltd.; firebricks, Buxton Dawson & Co.; bituminous felt roofing, Ragusa Asphalte Co. Ltd.; dome lights, T. & W. Ide, Ltd.; metal windows and doors, J. Thompson Beacon Windows Ltd.; slate copings, sills, etc., J. Williams & Co. Ltd.; heating, hot water and gas services, Stitson, White & Co. Ltd.; cloakroom and locker fittings, Clark Hunt & Co. Ltd.; plumbing, Matthew Hall & Co. Ltd.; pressed steel gutters, G. A. Harvey & Co. Ltd.; sanitary fittings, W. N. Froy, Ltd.; electrical installation, Watson & May; w.c. partitions, Venesta Ltd.; woodblock flooring, Hollis Bros.; linoleum flooring, The Great Metropolitan Flooring Co. Ltd.; rubber floor tiles, Brynmawr Rubber (Sales) Ltd.; paints, Docker Bros.; wallpapers, A. Sanderson & Sons; cork flooring, Aubanel & Alabaster Ltd.; extract ventilation, Greenwoods & Airvac Ventilating Ltd.; Hornton stone paving, London & Sussex Merchants Ltd.; precast terrazzo, Terrazzo & Tile Products Ltd.; balustrading, Kingsmill Metal Co. Ltd.; false ceilings, Sundeala Board Co. Ltd.; electric clocks, Gent & Co. Ltd.; copper roof, Broderick Insulated Structures Ltd.; roof tiling and floor finish to Schoolkeeper's House, Marley Tile Co. Ltd.; tarpaving and paths, Chittenden & Simmons Ltd.; special light fittings, Frederick Thomas & Co. Ltd.; lathing for suspended ceilings, W. H. Colt (London) Ltd.; glass roof lights, J. A. King & Co. Ltd.; roller shutters, G. Brady & Co. Ltd.; lightning conductors and flagstaff, J. W. Gray & Son Ltd.; laboratory fittings, Walker Symondson Ltd.; entrance gates and curtain tracks, N. F. Ramsay & Co. Ltd.; library fittings and joinery, Builders Supply Co. (Hayes) Ltd.; acoustic tiling and gymnasium ceiling, John Dale Ltd.; stage curtain track, Hall & Sons; roof to cycle shed, Wm. Briggs & Sons Ltd.; cycle parking blocks, Stelcon Ltd.; gymnasium only:—r.c. prestressed frame, Taylor Woodrow Construction Ltd.; internal facing bricks, Uxbridge Flint Brick Co. Ltd.; metal windows, Aygee Ltd.; gymnasium equipment, Educational Supply Association Ltd.; heating and hot water installation, Heath & Co. Ltd.

British Railways Travel Centre, Rex House, Lower Regent Street, London, W.1. (Pages 398-399.) Designed and executed under the direction of the Architect to the Railway Executive, Dr. F. F. C. Curtis, A.R.I.B.A., assistants; P. W. MacIver, A.R.I.B.A.; G. Lesser; I. Colquhoun, A.R.I.B.A.; D. R. Shorten, A.R.I.B.A. Mrs. J. Coomber A.R.I.B.A. Map panel by main entrance: Arthur Cousins. Design of ventilating, heating and lighting installation; F. C. Foreman, M.INST.E., A.M.I.H.V.E., M.INST.SAN.E. Quantity Surveyors: Rider Hunt & Partners. General contractors: Tersons Ltd. Sub-contractors: shopfitters, Heskins; heating and ventilation plant, Matthew Hall & Co. Ltd.; electrical installation, N. G. Bailey & Co. Ltd.; "Eggcrate" ceiling, Lundsigns; stonework, Anselm-Odling & Co. Ltd.; teak floor, Vigers Bros. Ltd.; Resinoid floor, Haskell Robertson; tiling, Parkinsons (Wall Tiling) Ltd.; acoustic plaster work, Pollock Bros. (London) Ltd.; sanitary equipment, W. E. Farrer Ltd., Kirby Bros.; lighting fittings, Falk Stadelmann & Co. Ltd., Parker Knoll, S. Hille & Co. Ltd.; furniture, L. M. Furniture Co., Dare Inglis Products, Ltd., Tan-Sad Chair Co. (1931) Ltd., Pel Ltd.; carpets, T. F. Firth & Sons Ltd.; moquettes John A. Wood Ltd.

Travel Office for British Railways, 110, *Victoria Street, London, S.W.1.* (Page 400.) Architects: H. H. Powell, A.R.I.B.A., B.ARCH. (Liverpool). Regional Architect, British Railways, Eastern Region; R. T. Walters, A.R.I.B.A., A.M.I.Struct.E., Deputy Regional Architect; R. G. Robbie, A.R.I.B.A., Assistant Architect-in-charge. General Contractors: A. Edmonds & Co. Ltd.; Sub-contractors: heating and air conditioning plant, Smeaton & Sons Ltd.; electrical installation, Cunningham Electric Ltd.; thermoplastic tiles, Armstrong Cork Co. Ltd.; carpet, John Lewis & Partners Ltd.; armourglass door, Pilkington Bros. Ltd.; neon lighting, Chase Products Ltd.; lighting fittings, Courtney Pope (Electrical) Ltd.; gas fittings, North Thames Gas Board; desk lights, Terry's Ltd.; burglar alarms, Rely-a-Bell Burglar & Fire Alarm Co. Ltd.; slate, Bow Slate & Enamel Co. Ltd.; acoustic tiles, Newalls Insulation Co. Ltd.; clock, Smith's English Clocks Ltd.; ticket cases, Bellpunch Co.; curtains, Heals Contracts Ltd.; office chairs, Leabank Chairs Ltd.; easy chairs, tables and dining chairs, Hille of London Ltd.

Sectional Factory for Electro Methods Ltd., Caxton Way, Stevenage New Town, Hertfordshire. (Pages 401-402.) Architects: D. P. Reay, B.A.(ARCH.), A.R.I.B.A., A.M.T.P.I., Chief Architect, Stevenage Development Corporation; L. G. Vincent, A.R.I.B.A., A.M.T.P.I., Deputy Chief Architect; L. W. Aked, B.A.(ARCH.), A.R.I.B.A., Group Leader; J. Gowan, A.R.I.B.A., Assistant Architect; Quantity Surveyors: Gardiner & Theobald; Consultants: (concrete frame), R. E. Eagan Ltd.; General Contractor: Gilbert-Ash Ltd.; Clerk of Works, S. A. J. Culpin, M.I.C.W., A.N.I.E.; General Foreman, S. F. Harding; sub-contractors: dampcourses, Permanite Ltd.; rein-

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Sectional Factory for Fleming Radio (Developments) Ltd., Caxton Way, Stevenage New Town, Hertfordshire. (Page 403.) Architects: D. P. Reay, B.A.(ARCH.), A.R.I.B.A., A.M.T.P.I., Chief Architect, Stevenage Development Corporation; L. G. Vincent, A.R.I.B.A., A.M.T.P.I., Deputy Chief Architect, L. W. Aked, B.A.(ARCH.), A.R.I.B.A., Group Leader, M. Whitworth, M.A., A.R.I.B.A., B. J. Alford, A.R.I.B.A., Assistant Architects. Quantity Surveyors: Gardiner & Theobald; Consultants (precast concrete frame), R. E. Eagan Ltd.; General Contractor: Gilbert-Ash Ltd.; Clerk of Works, S. A. J. Culpin, M.I.C.W., A.M.I.E.; General Foreman, R. Bennett; dampcourses, Permanite Ltd.; concrete blocks, Broads Ltd.; reinforced concrete, R. E. Eagan Ltd.; bricks, E. H. Smith (London), Ltd., Fisons Ltd.; stone, marble, Fenning & Co. Ltd.; insulation boards, Thermacoust Ltd.; roofing felt, Ragusa Asphalt Co. Ltd.; glass, Faulkner-Green & Co. Ltd.; patent glazing, Williams & Williams Ltd.; T. & W. Ide Ltd. (Domelights); patent flooring, Semtex Ltd.; plaster, W. A. Telling Ltd.; metalwork, Clark Hunt & Co.; joinery, P. H. Barker & Sons; flush doors, F. Hills & Sons Ltd.; painting, Labbett; paint, Dockers Bros., Screeton Paintmaker; furniture (desk), P. H. Barker & Sons Ltd.; sign, The Lettering Centre; central heating, ventilation, James Combe & Son Ltd.; electric wiring, Troughton & Young Ltd.; plumbing, J. S. Wright & Co. Ltd.; sanitary fittings, Stitsons Sanitary Fittings; door furniture, Dryad Metal Works; steel casements, Williams & Williams Ltd.; sliding, folding doors and gates, Esavian Ltd.

Private House at Robin Hill, Stones Lane, Westcott, Dorking, Surrey. (Pages 404-405.) Architect: Bevil Greenfield, A.R.I.B.A., of Frederick Barber & Partners, F/A/A.R.I.B.A. General Contractors: Brewster Bros. Subcontractors: bricks, London Brick Co. Ltd.; special roofings, Ruberoid Co. Ltd.; patent flooring, Armstrong Cork Co. Ltd. (Accotiles), E. J. Elgood Ltd. (cork); waterproofing materials, Inertol Co. Ltd.; stoves, Smith & Wellstood Ltd.; electric light fixtures, Troughton & Young Ltd., General Electric Co. Ltd.; sanitary fittings, Stitsons Sanitary Fittings Ltd.; door and window furniture, Rodney Gibbons Ltd.; joinery Midland Woodworking Co. Ltd. (standard); tiling supplied by Carter & Co. (London) Ltd.; paints supplied by International Paints Ltd.

Bungalow in Speldhurst Road, Southborough, Kent. (Page 406.) Architect: Ian Warwick, M.B.E., T.D., A.R.I.B.A., A.M.T.P.I. Quantity Surveyors: F. J. Meekins & Partners. General Contractors: Messrs. L. A. G. Hawkes. Sub-contractors: bricks, Richard Parton (Builders' Merchants) Ltd.; tiles, Ightham Brick & Tile Co. Ltd.; patent flooring, Armstrong Cork Co. Ltd. (Accotile); electric wiring and electric light fixtures, R. N. Carr; door and window furniture, A. J. Binns Ltd.



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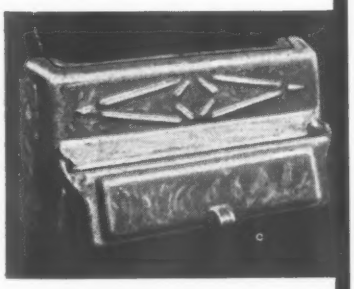
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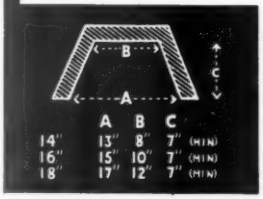
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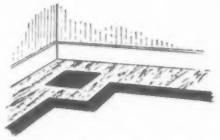
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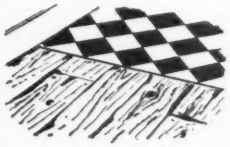
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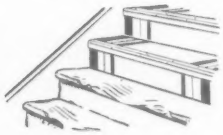
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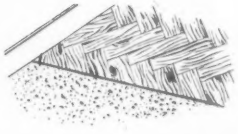
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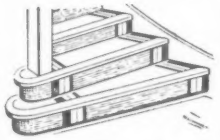
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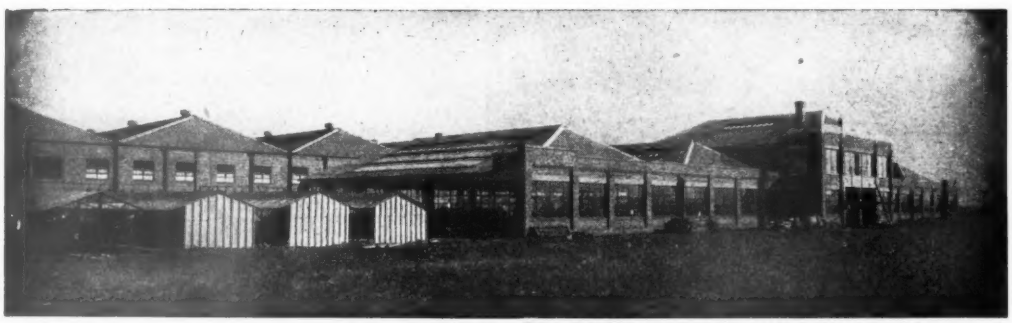


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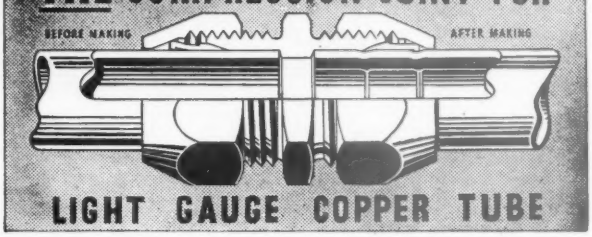
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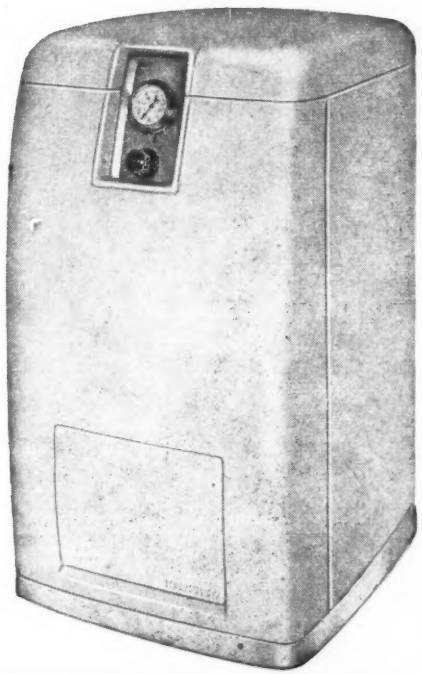
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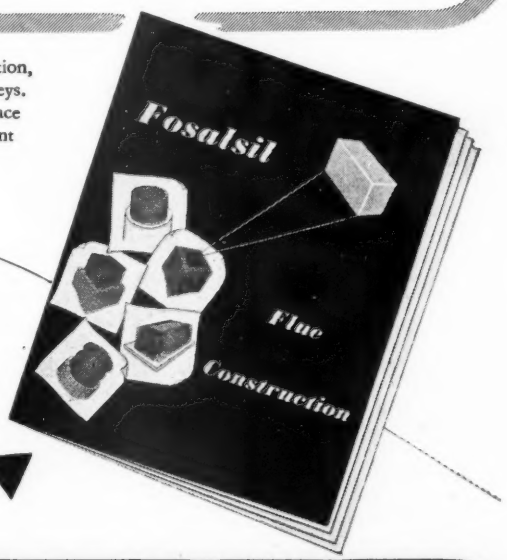
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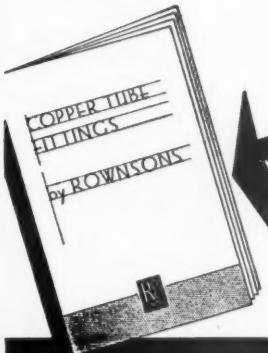
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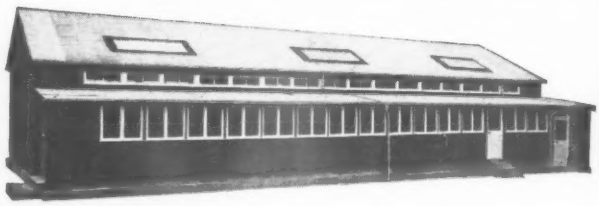
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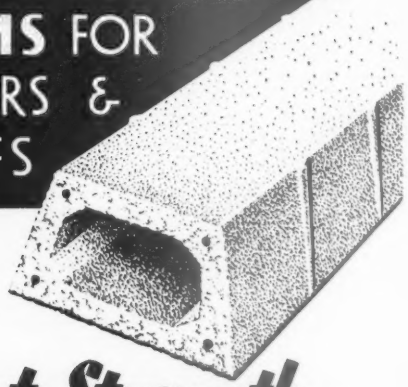
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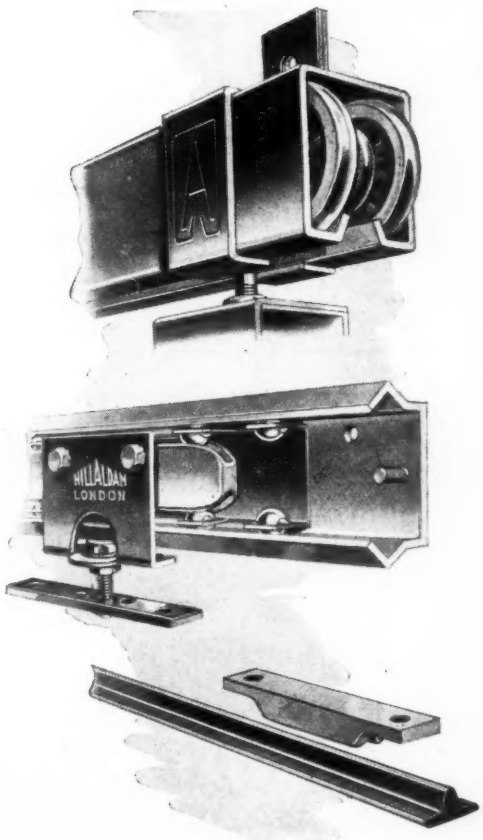
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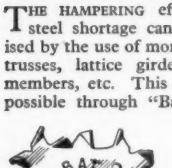


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CLASSIFIED ADVERTISEMENTS

Advertisements should be addressed to the Advt. Manager, "The Architects' Journal," 9, 11 and 13, Queen Anne's Gate, Westminster, S.W.1, and should reach there by first post on Friday morning for inclusion in the following Thursday's paper.

Replies to Box Numbers should be addressed care of "The Architects' Journal," at the address given above.

Public and Official Announcements

25s. per inch; each additional line, 2s.

The engagement of persons answering these advertisements must be made through a Local Office of the Ministry of Labour or a Scheduled Employment Agency if the applicant is a man aged 18-64 inclusive or a woman aged 18-59 inclusive unless he or she or the employment, is excepted from the provisions of the Notification of Vacancies Order, 1952.

LONDON COUNTY COUNCIL.
ARCHITECT'S DEPARTMENT.

(*a*) PLANNING OFFICERS, Grade III (up to £862 10s.).

(*b*) PLANNING ASSISTANTS (up to £721).

Professional qualifications: A.R.I.B.A., A.R.I.C.S. and/or A.M.T.P.I. required. Application forms and particulars from Architect (AR/EK/P/4), County Hall, S.E.1. (1322) 1330

WELSH REGIONAL HOSPITAL BOARD.
ARCHITECT'S DIVISION.

Applications are invited for the post of ASSISTANT QUANTITY SURVEYOR.

Salary: £600 × £25 (7) × £30 (3)—£865 p.a. The starting salary may commence above the minimum of scale where experience at full professional standard is shown.

Applicants must hold Corporate Membership of the Royal Institute of Chartered Surveyors, and have experience in taking off and preparing Bills of Quantities and Final Accounts, etc.

The person appointed will be engaged upon the preparation of Bills of Quantities and Final Accounts, Site Measurements and Valuation for interim certificates, etc., on Capital Works throughout Wales, including quantities in connection with Engineering Services.

The appointment is superannuable and terminable by one month's notice on either side.

Applications, stating age, experience, qualifications and present position, together with names and addresses of two referees, should be addressed to the Secretary, Welsh Regional Hospital Board, Temple of Peace and Health, Cathays Park, Cardiff, within 14 days of the appearance of this advertisement. 1988

BOROUGH OF TAUNTON.
ARCHITECT'S DEPARTMENT.

Applications are invited for the undermentioned appointments in the Borough Housing Architect's Department:—

(*a*) ASSISTANT ARCHITECT—Salary (A.P.T. Grade V) £620-£670.

(*b*) ASSISTANT QUANTITY SURVEYOR—Salary (A.P.T. Grade V) £620-£670.

Applicants for appointment (*a*) should be qualified Architects, having had experience in the design and construction of Municipal Housing Estates, and for appointment (*b*) preference will be given to Candidates who are members of the Royal Institution of Chartered Surveyors.

The Council have adopted the National Scheme of Conditions of Service and the appointment will be subject to one month's notice on either side and to the provisions of the Local Government Superannuation Act, 1937. The successful candidate will be required to pass a medical examination.

Consideration will be given to housing accommodation if required.

Applications, stating age, qualifications, previous experience and the earliest date when available, together with the names of two referees, should be sent to C. Bacon, F.R.I.B.A., Borough Housing Architect, Flook House, Station Road, Taunton, to reach him not later than Wednesday, 14th April, 1954.

L. ATWELL,
Town Clerk.

Municipal Buildings, Taunton. 2065

SOLIHULL URBAN DISTRICT COUNCIL.
DEPARTMENT OF ENGINEER AND SURVEYOR.

Appointment of ASSISTANT ARCHITECT, A.P.T. Grade VII.

Applications are invited from suitably qualified persons for the appointment of ASSISTANT ARCHITECT, A.P.T. Grade VII (£735-£810).

This appointment is subject to the National Scheme of Conditions of Service and the provisions of the Local Government Superannuation Acts. The successful applicant will be required to submit to a medical examination.

Applications stating age, experience and previous appointments, together with the names of three referees, should be sent to the Engineer and Surveyor, 90, Station Road, Solihull, not later than Tuesday, 6th April, 1954.

W. MAURICE MELL,
Clerk of the Council.

Council House, Solihull. 2098

CORPORATION OF COVENTRY.

ARCHITECTURAL posts available on Grades A.P.T. VIII, VII, III, and for an ARCHITECT/PLANNER on A.P.T. VIII, for which latter post A.R.I.B.A. and A.M.T.P.I. qualifications required.

Application forms and particulars from D. E. E. Gibson, Bull Yard, Coventry, returnable by 7th April, 1954. 2157

LIVERPOOL REGIONAL HOSPITAL BOARD.
APPOINTMENT OF PRINCIPAL ASSISTANT ARCHITECT (Salary—£1,050 × £40—£1,250).

Applications are invited from suitably qualified persons to supervise the design and erection of a new Hospital near Southport to accommodate 1,000 mental deficiency patients.

Certain preliminary work has already been carried out on the site and drawings for the first stage are now advanced.

The work is being carried out by a special staff appointed for the scheme and responsible to the Regional Architect (T. N. Mitchell, B.Arch., A.R.I.B.A.).

Applicants must be Associates of the R.I.B.A. and preferably have a University qualification and must have had considerable experience in the planning and execution of large projects and in the control of staff. Some experience in Hospital work would be an advantage.

The appointment will be of limited duration, extending to probably 4-6 years, and will be terminable at any time within that period by three calendar months' notice on either side.

Applications stating age, technical experience and qualifications, present and previous appointments, with present salary, together with the names and addresses of three referees, two of which must be technical, should be forwarded to reach the undersigned at 19, James Street, Liverpool, 2, not later than Tuesday, the 13th April, 1954.

VINCENT COLLINGE,
Secretary to the Board.

2159

NATIONAL COAL BOARD—WEST MIDLANDS DIVISION.
ARCHITECT GRADE II.

Applications are invited for an ARCHITECT Grade II (£600 × £25 to £650 × £30 to £900 male, and £575 × £20 to £775 female) in the Divisional Architect's Department of the Board. Headquarters for this appointment will be at Fenton, Stoke-on-Trent.

Applicants must have passed the final examination of the Royal Institute of British Architects and have had at least one year's subsequent practical experience, and should be able to prepare sketch plans, working drawings and specifications. The post will be eligible for the Board's Superannuation Scheme.

Applications should be sent to the Divisional Establishment Officer, National Coal Board, West Midlands Division, Himley Hall, Dudley, Worcs. 2161

CITY OF WAKEFIELD.
CITY ENGINEER'S DEPARTMENT.

Applications are invited for:—(*a*) SENIOR ENGINEERING ASSISTANT; (*b*) SENIOR ARCHITECTURAL ASSISTANT; both on Grade A.P.T. VI (commencing at £695).

Applicants for (*a*) must be A.M.I.C.E. or A.M.I.Mun.E., and have a good general experience on the construction and maintenance of highways and sewers.

Applicants for (b) must be A.R.I.B.A. with municipal experience and be capable of designing and carrying out buildings with the minimum of supervision.

Applications giving full particulars to be received by April 12th, 1954.

The names of two referees to be given.

Housing accommodation will be considered.

W. S. des FORGES,
Town Clerk.

Town Hall, Wakefield. 2160

BASILDON DEVELOPMENT CORPORATION.
CHIEF ARCHITECT'S DEPARTMENT.
APPOINTMENT OF JUNIOR ASSISTANT ARCHITECT, GRADE VB.

Applications are invited for the post of JUNIOR ASSISTANT ARCHITECT on the staff of the Chief Architect/Planner, N. Tweddell, A.R.I.B.A., at a commencing salary within the range £535-£585 p.a. according to experience and ability. Local Government Superannuation Scheme is in force and a medical examination will be required.

Preference will be given to Associate Members of the R.I.B.A. and a Town Planning qualification or recognised Town Planning course is desirable. The person appointed will be required to work on the development of the Master Plan and on the control of development within the new town.

Housing is available in approved cases.

Applications, on forms to be obtained from the Chief Architect, should be returned to the General Manager, Basildon Development Corporation, Gifford House, Basildon, Essex, by 12th April, 1954. 2155

FLINTSHIRE COUNTY COUNCIL invite applications from Associate Members of the Town Planning Institute or others holding equivalent qualifications, for appointment of PLANNING ASSISTANT. Salary as revised £620-£670 (A.P.T. V) or £650-£710 (A.P.T. Va) according to qualifications and experience. Good experience in Town and Country Planning required, particularly preparation of Development Plans and layout of Housing Estates. Car an advantage. Applications, on a form to be obtained from the undersigned, are to be returned by 10th April, 1954.

W. HUGH JONES,
Clerk of the County Council.

County Buildings, Mold 2097

LONDON COUNTY COUNCIL.
ARCHITECT'S DEPARTMENT.

Vacancies for ARCHITECTS, Grade II, in the Schools and Housing Divisions. Qualifications: A.R.I.B.A. Salary scale: £862 10s.-£1,027.

Application forms returnable by 15th April, and particulars from Architect, AR/EK/SH/3, County Hall, S.E.1. 2102

CITY OF LEEDS.
CITY ARCHITECT'S DEPARTMENT.

Applications are invited for the following appointments:—

(1) ASSISTANT HEATING AND VENTILATING ENGINEER. A.P.T., V (£620-£670).

Candidates should have had experience in the design and the preparation of specifications for schemes for heating and ventilation of schools and other public buildings.

(2) ASSISTANT SURVEYOR. A.P.T., VI (£695-£760).

Candidates should have had experience in surveying contouring, levelling of large areas particularly in connection with central area redevelopment schemes, and should hold a suitable professional qualification.

(3) ASSISTANT SURVEYORS. A.P.T., V (£620-£670).

Candidates should have had experience in surveying levelling and contouring of large areas, and should hold a suitable professional qualification.

(4) CLERKS OF WORKS. A.P.T., IV (£580-£625).

Candidates should be men with a wide knowledge of the building trade, and have had experience of large scale building projects.

(5) ASSISTANT ARCHITECT. A.P.T., VIII (£785-£860).

(6) ASSISTANT ARCHITECT. A.P.T., V (£630-£670).

(6a) ARCHITECTURAL ASSISTANT. A.P.T., IV (£580-£625).

(7) ASSISTANT QUANTITY SURVEYORS. A.P.T., V (£620-£670).

(8) ASSISTANT QUANTITY SURVEYORS. A.P.T., III (£550-£595).

(9) TRACER. General Division. Salary according to age (£470 (M)—£380 (F)).

The payment of salary increments will be subject to satisfactory service, and will be granted normally with effect from the 1st April following the completion of six months' service.

The appointments are subject to the Local Government Superannuation Acts, 1937-1953, and the successful applicants will be required to pass a medical examination.

Application forms may be obtained from the City Architect, Priestley House, Quarry Hill, Leeds, 9, to whom they should be returned, together with copies of three testimonials, by 12 noon, Wednesday, 14th April, 1954.

Canvassing in any form, either directly or indirectly, will be a disqualification.

R. A. H. LIVETT, O.B.E., A.R.I.B.A.,
City Architect.

Priestley House, Quarry Hill, Leeds, 9.
22nd March, 1954. 2141

GOLD COAST GOVERNMENT—VACANCY FOR AN ARCHITECT, PUBLIC WORKS DEPARTMENT.

Applications are invited for a vacancy in the Architectural Branch of the Public Works Department for an Architect of a senior status.

Qualifications: Candidates must be Members of the Royal Institute of British Architects, and have had considerable experience of office administration and the control of Professional and Technical Staff. They should also have a contemporary approach to design.

Tropical experience will be an advantage.

Duties: The Architect selected will be responsible to the Chief Architect for the efficient handling of the wide range of the large Building Development Programme, consisting of Hospitals, Schools, Flats, Quarters, Banks, Factories, Offices, etc.

Terms of Service: This post is a "Development Post" for implementation of specific projects under the Gold Coast Development Plan. The appointment will be on contract/gratuity terms for one tour of 18 to 24 months, with a possible extension to two tours. Salary will be in the range £2,200 to £2,500 per annum (consolidated), according to age, qualifications and experience. A gratuity at the rate of £37 10s. for each completed three months of satisfactory service will be payable on final termination of the contract.

Free passages on first appointment and on leave will be provided for the officer and his wife once each way during each tour of service. Officers will normally be required to travel by air. Free air passages will also be provided for a maximum of 3 children under 13 years of age.

Vacation leave with pay; seven days for each month of service. Free medical and dental attention provided for officer and family. Reasonable but sub-standard partly furnished quarters are available at low rental. Kit allowance on first appointment £30.

Intending candidates should apply in writing to the Adviser on Recruitment, Gold Coast Office, Melbourne House, Aldwych, London, W.C.2. 2120

MIDDLESEX COUNTY COUNCIL, COUNTY ARCHITECT'S DEPARTMENT.

(*a*) ASSISTANT ARCHITECTS (Registered), A.P.T., V (£620-£670 p.a.).

(*b*) ARCHITECTURAL ASSISTANT, A.P.T., II (£520-£565 p.a.). Must have passed R.I.B.A. Intermediate Examination.

Both plus London Weighting. Appointments at grade minima. Established, subject to medical assessment and prescribed conditions. Experience of Educational Buildings an advantage. Application forms (stamped addressed envelope foolscap), obtainable from County Architect, 1, Queen Anne's Gate Buildings, Dartmouth Street, S.W.1, returnable by 12th April (quote N.282 A.J.). Canvassing disqualifies. 2165

HER MAJESTY'S COLONIAL SERVICE.
CHIEF ARCHITECT, WORKS AND HYDRAULICS DEPARTMENT, TRINIDAD.

The selected officer will be responsible for the preparation of designs and all drawings for buildings and works, and will be required to control and administer construction. He will also act as liaison between the Department and Consulting Architects, advise on all building matters, carry out valuations, and prepare general administrative and technical reports.

Appointment is on contract for three years in first instance in the scale £1,200×£50—£1,300 per annum, plus gratuity of £150 per annum on satisfactory completion of agreement. A varying cost-of-living allowance is also payable. Salary of the post is likely to be reviewed shortly by a Salaries Commission, and candidate selected would be eligible for any revised salary which may be approved.

Free passages for the officer, wife and up to three children under the age of 18. Quarters are not provided, but allowance paid towards rent for private residence. Leave at the rate of 45 days a year.

Candidates must be F.R.I.B.A. or A.R.I.B.A., with at least 12 years' experience as a practising architect, or have held a responsible position in an architect's office for the same period.

Apply in writing to the Director of Recruitment, Colonial Office, Great Smith Street, London, S.W.1, giving briefly age, qualifications and experience. Mention the reference number CDE.112/38/03. Closing date for receipt of initial enquires: 15th May, 1954. 2166

COUNTY BOROUGH OF DEWSBURY.
BOROUGH ARCHITECT AND BUILDINGS SURVEYOR'S DEPARTMENT.

Applications are invited for the following appointments in the above-mentioned department:—

(*a*) ASSISTANT ARCHITECTS (TWO), at salaries in accordance with A.P.T., Grades VI/VII (£695-£810), the commencing salaries being within the scope of these grades, according to qualifications and experience. Applicants should be Registered Architects, with good architectural experience and a knowledge of local government procedure.

(*b*) TEMPORARY JUNIOR ASSISTANT, at a salary in accordance with the General Division of the National Scales of Salaries (£170 per annum at age 16 years, rising to £470 at age 30 years). Applicants should have an aptitude for drawing.

(*c*) QUANTITY SURVEYOR'S ASSISTANT, at a salary in accordance with A.P.T., Grade IV (£580-£625 per annum).

The appointments will be subject to one month's notice on either side and to the provisions of the Local Government Superannuation Act, 1937. The successful candidates will be required to pass a medical examination.

Applications, stating age, education, qualifications, full particulars of training and experience, together with copies of two recent testimonials, should be sent to the undersigned not later than Thursday, 15th April, 1954, endorsed with the name of the appointment applied for.

A. NORMAN JAMES,
Town Clerk.

Town Hall, Dewsbury.
25th March, 1954. 2167

CORBY DEVELOPMENT CORPORATION.

Applications are invited from suitably qualified persons for the following appointments:—

(*a*) SENIOR ASSISTANT ARCHITECT. £780×£45 (3)×£35—£950.

(*b*) ASSISTANT ARCHITECT (TWO). £630×£30 (4)—£750.

(*c*) JUNIOR ASSISTANT ARCHITECT. £525×£25 (2)—£575.

The appointments are required in connection with large-scale construction projects associated with the development of a New Town. Candidates must have had suitable experience in, for appointment (*a*) the design and execution of large-scale housing and other building works, etc., and (*b*) detailed design and construction in an architect's department.

All appointments are subject to one month's notice on either side, the provisions of the Local Government Superannuation Acts, and to the passing of a medical examination.

Applications, stating age, education, training, qualifications, experience, past and present appointments and salaries, together with the names of two referees, must be received by the undersigned not later than the 19th April, 1954. Housing for married candidates available.

R. F. BROOKS GRUNDY,
General Manager.

The Stone House, South Road,
Corby, Northants. 2142

CRAWLEY DEVELOPMENT CORPORATION require an ASSISTANT ARCHITECT, salary scale £630-£850 p.a., who should be fully qualified, with a good general experience in design, construction and planning. Contributory superannuation.

Application forms and particulars obtainable from Chief Architect (Vacancy), Broadfield, Crawley, Sussex, to be returned by 12th April, 1954.

C. A. C. TURNER,
Chief Executive.
2119

CAERNARVONSHIRE COUNTY COUNCIL.

Applications invited for post of DRAUGHTSMAN in the Planning Department. Salary: Miscellaneous, IV (£440-£520). Further particulars and forms of application from Clerk of County Council, County Offices, Caernarvon. Closing date: 10th April, 1954. 2104

METROPOLITAN BOROUGH OF FULHAM.
BOROUGH ARCHITECT'S AND HOUSING DEPARTMENT.

(*a*) ASSISTANT ARCHITECT (A.P.T., Grade IV). R.I.B.A. Intermediate or equivalent, and at least two years' subsequent experience in an architectural office.

(*b*) ARCHITECTURAL ASSISTANT (A.P.T., Grades I/II). At least two years' experience and up to standard for R.I.B.A. Intermediate.

(*c*) ASSISTANT QUANTITY SURVEYOR (A.P.T., Grade VII). Experienced in "taking-off" for large blocks of flats and other public buildings, measurement of works on site, and finalising accounts. Final R.I.C.S. (Quantities) examination or equivalent.

(*d*) TWO QUANTITY SURVEYOR'S ASSISTANTS (A.P.T., Grades I/II). Applicants should be experienced in "working-up" and students of the R.I.C.S. or other approved body.

Application forms from Town Clerk, Town Hall, S.W.6. Closing date: 14th April. 2144

MINISTRY OF HOUSING AND LOCAL GOVERNMENT require TEMPORARY INSPECTORS in the housing and planning inspectorate. Duties include the conduct of public local inquiries into matters arising under the Housing Acts and Town and Country Planning Acts. Candidates must be at least 37 years of age and possess one or more of the following professional qualifications:—Registered Architect by examination, Corporate membership of the Institution of Civil Engineers, Institution of Municipal and County Engineers, Royal Institution of Chartered Surveyors, Town Planning Institute, Chartered Auctioneers and Estate Agents Institute, Lands Agents Society, University degree in Estate Management (B.A. Cambridge or B.Sc. London). Practical experience in housing preferably local authority housing or in town and country planning necessary. Salary scale, men (London) £1,000 to £1,320. Women somewhat lower.

Application forms from M.L.N.S., Technical and Scientific Register, 26, King Street, London, S.W.1, quoting reference J.72/54. 2154

ISLE OF ELY COUNTY COUNCIL.
COUNTY ARCHITECT'S DEPARTMENT.

Applications are invited for the undermentioned appointments on the Staff of the County Architect:—

(*a*) ASSISTANT ARCHITECT, Grade A.P.T. V (£620-£670);

(*b*) ASSISTANT QUANTITY SURVEYOR, Grade A.P.T. III (£550-£595);

(*c*) ENGINEERING ASSISTANT, Grade A.P.T. I (£490-£535);

(*d*) JUNIOR ARCHITECTURAL ASSISTANT (Temp.) Grade Misc.: I/II/III (£320-£460).

All posts with the exception of (*d*) are permanent, and all are subject to the National Scheme of Conditions of Service, the Local Government Superannuation Act, and to the passing of a medical examination.

Intending applicants should apply for forms, stating for which post they wish to apply, to the County Architect, County Hall, March, to whom they must be returned not later than Saturday, 24th April, 1954.

R. F. G. THURLOW,
Clerk of the County Council.
2158

EAST ANGLIAN REGIONAL HOSPITAL BOARD.

Applications are invited for post of ARCHITECTURAL ASSISTANT. Applicants must have passed Intermediate Examination of R.I.B.A. Commencing salary, within grade £440-£625 per annum, will depend on applicant's age and practical experience since passing Intermediate Examination, but will not exceed £525. Sound architectural training and practical experience in an architect's office essential.

Applications, stating age, qualifications and experience, and names of three referees, to Secretary of Board, 117, Chesterton Road, Cambridge, by 19th April, 1954. 2143

LONDON COUNTY COUNCIL.

Central School of Arts and Crafts, September, 1954. Part-time HEAD of department (7/10ths week), man or woman, for the department of Interior Design and Furniture. Should have a knowledge of architecture, period furniture, furnishings, and be cognisant with modern design and materials. Burnham salary scale, Grade II; at present, man 7/10ths of £1,040×£25—£1,190, woman 7/10ths of £832×£20—£952, plus London allowance pro rata. Application forms (stamped addressed foolscap envelope required), from Secretary at School, Southampton Row, W.C.1, for return by 30th April. (199) 2110

MINISTRY OF WORKS—MANCHESTER.

ASSISTANT ARCHITECT required. Salary range £660 (age 26) to £980 p.a. Maximum entry rate £880 p.a. Women's rates slightly lower. Qualifications: Registered Architect by examination with experience in design and construction of modern buildings.

Apply to Establishment Officer, Ministry of Works, Warwick Road South, Manchester, 16. 2074

LONDON COUNTY COUNCIL.
ARCHITECT'S DEPARTMENT.

Vacancies for TECHNICAL ASSISTANTS (up to £721) in Structural Engineering Division. Work includes steelwork and reinforced concrete design and detailing for Council's building, and checking structural designs and calculations under London Building Acts.

Application forms from Architect (AR/EK/SE/5), County Hall, S.E.1. (1270) 1067

BRITISH ELECTRICITY AUTHORITY.
EAST MIDLANDS DIVISION.

Applications are invited for the following positions within the Division:—

ENGINEERING DRAUGHTSMEN (CIVIL), Construction Department. (Vacancy No. 1/54.)

Candidates should have experience in design and detail of reinforced concrete structures, piled and slab foundations for heavy plant, culverts, cable subways, etc., for general building construction drainage and sanitation schemes, associated with official and administrative buildings.

The salary will be in accordance with Grade 5 (£567-£671 per annum) or Grade 6 (£433-£567 per annum) of Schedule D of the National Joint Board Agreement.

ENGINEERING DRAUGHTSMEN (MECHANICAL), Construction Department. (Vacancy No. 2/54.)

Senior Draughtsmen are required in the Mechanical Section of the Construction Department at North Wilford Power Station. Candidates should have experience in one or more of the following:—

(i) Design and layout of Power Station equipment, including turbo-alternators, boiler plant, coal and ash plant, and general station auxiliaries.

(ii) H.P. and L.P. steam and feed pipework. Condensing plant and feed heating systems.

(iii) Conveyor plant, coal handling systems and material handling of station auxiliary equipment.

The salary will be in accordance with the National Joint Board Agreement, Grade 5 (£567-£671 per annum) and Grade 6 (£433-£567 per annum) of Schedule D, according to experience.

ENGINEERING DRAUGHTSMEN (ELECTRICAL), Construction Department. (Vacancy No. 3/54.)

Candidates should have experience in the preparation of layouts and diagrams for the installation of E.H.T. and L.T. switchgear, transformers, E.H.T. and L.T. cables; knowledge of protective gear systems would be an advantage.

The salary will be in accordance with the National Joint Board Agreement, Grade 5 (£567-£671 per annum) and Grade 6 (£433-£567 per annum) of Schedule D, according to experience.

The above positions will be pensionable within the provisions of the British Electricity Authority and Area Boards Superannuation Scheme.

Applications should be submitted on the official form, which may be obtained from the Divisional Establishments Officer, British Electricity Authority, Barker Gate, Nottingham, and should be returned to the undersigned. Please quote Vacancy Number.

L. F. JEFFREY,
Divisional Controller.
2101

COUNTY COUNCIL OF THE WEST RIDING OF YORKSHIRE.
OFFICE OF THE COUNTY ARCHITECT.

Applications are invited for the appointment of DIVISIONAL ARCHITECT for the South Yorkshire area based upon Wakefield—salary range £1,250 × £50—£1,350.

Applicants must possess in an ample degree the professional and administrative ability to undertake responsibility for the organisation and supervision of a large volume of maintenance and adaptation works to County-owned buildings and for the supervision of staff.

The appointment is subject to the provisions of the Local Government Superannuation Act, 1937, as amended by the West Riding County Council (General Powers) Act, 1948, and the conditions of service at present in operation by the County Council. The successful candidate will be required to pass a medical examination.

Application forms, obtainable at this office, should be delivered not later than the first post on Monday, 12th April, 1954.

HUBERT BENNETT, F.R.I.B.A.,
County Architect.
Bishopgarth, Westfield Road, Wakefield. 2132

COUNTY BOROUGH OF GATESHEAD.
BOROUGH ENGINEER'S DEPARTMENT.

Applications are invited for the following appointment: ASSISTANT QUANTITY SURVEYOR, Grade A.P.T. III = £550 × £15—£595 per annum.

Candidates should have passed the Intermediate Examination of the R.I.C.S. and should have a sound knowledge of Quantity Surveying in all its branches, together with experience in Measurement, Abstracting and Billing.

The appointment will be subject to the Local Government Superannuation Act, 1937, and to one month's notice on either side.

The successful candidate will be required to pass a medical examination.

Applications to be made on forms obtainable from Mr. G. F. Winters, B.E., A.M.I.C.E., Borough Engineer, Municipal Buildings, Swinburne Street, Gateshead, 8, should be returned not later than Wednesday, 14th April, 1954.

J. W. PORTER,
Town Clerk.

Town Hall, Gateshead, 8.
23rd March, 1954. 2133

LONDON COUNTY COUNCIL.
ARCHITECT'S DEPARTMENT.

PLANNING OFFICER Grade I (£1,027-£1,168) and Grade II (£862 10s.-£1,027), required for work on Architectural aspects of development applications. Professional qualifications: A.R.I.B.A. (A.M.T.P.I. desirable).

Application forms returnable by 15th April, and particulars from Architect, AR/EK/POI/4, County Hall, S.E.1. 2103

ALDRIDGE URBAN DISTRICT COUNCIL.
APPOINTMENT OF ARCHITECTURAL ASSISTANT.

Applications are invited at a salary scale in A.P.T. Grade III-V according to qualifications and experience.

The appointment is subject to a medical examination and to one month's notice on either side.

Housing accommodation will be provided if necessary, and reasonable removal expenses paid.

Names of two referees required.

Closing date, Tuesday, 13th April, 1954.

H. G. G. NICHOLS.
Clerk to the Council

Council House, Aldridge, Staffs.
23rd March, 1954. 2131

Tenders for Contracts

6 lines or under, 12s. 6d.; each additional line, 2s.

BOROUGH OF DAGENHAM.
MARKS GATE ESTATE—CONTRACT 5.

Erection of:—74 Houses, 14 Old Person's Bungalows, 8 Flats (2-storey), 19 Garages.

Tenders are invited for the erection of these properties on Marks Gate Estate, situate north of Eastern Avenue, and west of Whalebone Lane North, Dagenham.

Bills of Quantities and Forms of Tender may be obtained from the Borough Engineer and Surveyor, on payment of a deposit of two guineas, which will be refunded on receipt of a bona-fide tender.

Plans and general conditions of contract may be inspected during normal office hours.

Sealed tenders, in the envelopes provided and bearing no external indication of the identity of the senders, must be delivered to the undersigned by noon on Monday, 3rd May, 1954.

The Council do not bind themselves to accept the lowest or any tender.

KEITH LAUDER,
Town Clerk.

Civic Centre, Dagenham. 2156

Architectural Appointments Vacant

4 lines or under, 7s. 6d.; each additional line, 2s.

The engagement of persons answering these advertisements must be made through a Local Office of the Ministry of Labour or a Scheduled Employment Agency if the applicant is a man aged 18-64 inclusive or a woman aged 18-59 inclusive unless he or she is, or the employment, is excepted from the provisions of the Notification of Vacancies Order, 1952.

ARCHITECTURAL ASSISTANTS required for busy practice engaged upon schools, industrial buildings, offices, etc. Write, giving full particulars of qualifications, experience and salary required, to Johns & Slater, F./A.R.I.B.A., 32, Foundation Street, Ipswich. 1536

A SENIOR ARCHITECTURAL ASSISTANT required, full experience in preparation of Working Drawings, Details, and supervision of office and Industrial Buildings in the London Area. Good knowledge of construction and design essential. Apply in writing giving full particulars of qualifications, age, experience and salary required to Box 9829.

NEW ZEALAND ARCHITECTURAL PRACTICE, mainly in commercial and industrial work, requires SENIOR ASSISTANTS, preferably qualified A.R.I.B.A., with some experience since exams., either single or married, although accommodation easier for a single man. Good opportunity enterprising and capable man considering emigration. Commencing salary £750/£900 according capabilities. 2 years assured engagement and passage money assistance for right man, subject certain conditions. Apply airmail, with snapshot and personal and experience details, plus small working drawing own work, to Mitchell & Mitchell and Partners, P.O. Box 187, Wellington C.1, New Zealand. 1905

ARCHITECT required for Civil Engineer's Department of large industrial concern in Kent. Responsible for supervisior of office, dealing with varied industrial and commercial projects. Applications should be made in writing stating full particulars of qualifications, age, experience and salary required. Box 1985.

ARCHITECTURAL ASSISTANT up to Intermediate standard required for housing work. Reply with details of experience and salary required to T. H. Johnson & Son, 20, Priory Place, Doncaster. 2073

YOUNG office-trained ASSISTANT required for Norfolk office. Car driver; competent surveyor; draughtsman and detailer. Knowledge of final accounts a distinct advantage. Apply, with details of experience and salary required, to Box 2088.

SIR JOHN BURNET, TAIT & PARTNERS require ASSISTANT ARCHITECT, with experience in Hospital construction and an interest in theory of Hospital planning. Salary according to experience. Apply in writing, giving particulars of experience. 2087

ARCHITECTURAL ASSISTANT required for small practice. Office experience essential, and must be good draughtsman. Salary: £416 per annum, according to experience. Please apply in writing, giving full particulars of experience and training. R. Jelinek-Karl, F.R.I.B.A., 22, Chancery Lane, W.C.2. 2023

ARCHITECTURAL ASSISTANTS.
QUANTITY SURVEYOR'S ASSISTANT.

THERE are vacancies for ARCHITECTURAL ASSISTANTS in the Head Office of the Architects' Department, Ind Coope & Allsopp, Ltd., The Brewery, Burton-on-Trent. The posts are considered suitable for applicants recently qualified or students nearing the required standard for the Final Examination, and who have good general experience in design and construction.

The Department has a considerable and interesting programme in hand. The appointments will be to the temporary staff at a commencing salary of £550-£650 p.a., according to qualifications and experience.

A vacancy exists for one ASSISTANT in the Quantity Surveying section. Applicants should have had experience in all branches of building work, and should be familiar with all aspects of a Quantity Surveyor's duties, including preparation of estimates, Bills of Quantities, etc. Applicants should have passed the Intermediate Examination of the R.I.C.S. (Quantities Section). The appointment will be to the temporary staff at a commencing salary of £450-£550 p.a., according to qualifications and experience.

A five-day working week is in operation, and amenities include Canteen and Sports Ground. Successful applicants would be expected to reside in or around Burton-on-Trent.

Particulars of training, experience, past and present appointments and qualifications, together with testimonials, and stating age and whether married or single, to be sent to the Chief Architect, Ind Coope & Allsopp, Ltd., The Brewery, Burton-on-Trent. 2117

THE MILK MARKETING BOARD requires an ARCHITECT'S ASSISTANT, preferably qualified, to be employed mainly on conversion and industrial work. Applicants should be able to undertake responsibility for the whole job from sketch plan to completion, including writing of specifications, site supervision, and checking of accounts. Salary will be between £700 and £750 per annum, according to qualifications. Applications, giving full details, including age and previous experience, should be addressed in writing to the Chief Administrative Officer, Milk Marketing Board, Thames Ditton, Surrey. 2114

IMPERIAL CHEMICAL INDUSTRIES LIMITED, General Chemicals Division, require an ARCHITECTURAL ASSISTANT in the Architectural Section of their Chief Engineer's Department at Runcorn. Applicants should hold either a Degree or Diploma in Architecture and preference will be given to Associates R.I.B.A., with one or more years' experience since qualification. The successful applicant will be employed on the design of Amenities, Canteens, Offices and Laboratory buildings. Membership of Staff Pension Fund. Apply in writing, stating age, qualifications, experience and salary required to Staff Manager, Imperial Chemical Industries Limited, General Chemicals Division, Cunard Building, Liverpool, 3. 2134

JUNIOR ASSISTANTS and ARCHITECTURAL DRAUGHTSMEN required by Multiple Shop Co. in the London area. Excellent working conditions, staff canteen, superannuation, 5-day week. Experience required in surveys, ¼ in. scale working drawings and details under supervision. Please reply, stating age and salary required, to Box 2150.

ASSISTANT required for London office of firm controlling Hotels, age 21/23, preferably with knowledge of building maintenance, willing to travel, and capable of dealing with small contracts from start to finish. Write, stating age, experience, and salary required, to Box 2148.

CO-OPERATIVE WHOLESALE SOCIETY, LTD.
ARCHITECT'S DEPARTMENT, LONDON.

ASSISTANT ARCHITECTS required, of Intermediate R.I.B.A. standard, capable of preparing sketches, working drawings and details under supervision of Senior Architects,

and

TAKER-OFF and TWO WORKERS-UP, with experience of commercial/industrial buildings.

The appointments are permanent and offer prospects of up-grading. Successful candidates will be required to undergo medical examination for compulsory superannuation scheme.

Applications, stating age, experience, qualifications and salary required, to W. J. Reed, F.R.I.B.A., Chief Architect, Co-operative Wholesale Society, Ltd., 99, Leman Street, London, E.1. 2025

THE Co-operative Wholesale Society Ltd., invite applications for the appointment of ASSISTANT ARCHITECTS on the staff of the Manchester Architects Department.

Candidates must have had several years experience, preferably of commercial or industrial projects, possess a sound knowledge of construction and be able to prepare working drawings and details from preliminary sketches.

The appointments are permanent with prospects of promotion. Successful applicants will be required to undergo a medical examination for entry into a compulsory Superannuation Scheme.

Applications stating age, experience, qualifications and salary required to be addressed to G. S. Hay, A.R.I.B.A., Chief Architect, Co-operative Wholesale Society Limited, 1, Balloon Street, Manchester, 4. 2106

ARCHITECTURAL DRAUGHTSMEN and ASSISTANTS required immediately by London Architect. Industrial experience essential. Reply, stating age, qualifications, experience and salary required to Box 1901.

DRAUGHTSMAN, architectural, for firm in Radiation, Ltd., Group, producing modern industrial and domestic space-heating equipment, to design installation layouts and make production drawings. Excellent opportunities for advancement in expanding department. 5-day week, canteen, pension scheme. State particulars and salary required. Bratt Colbran, Ltd., Lancelot Road, Wembley, Middlesex, telephone WEMbley 6221. 2149

ARCHITECTURAL ASSISTANTS required for general practice, Surveys, 4th scales and detailing, Industrial Work, Licensed Premises and Domestic. Salary according to experience. Hing & Jones, F./F.R.I.B.A., 121, Colmore Row, Birmingham, 3. 2164

ARCHITECTURAL DRAUGHTSMEN required, preferably with experience in precast concrete and reconstructed stone. Superannuation Scheme. Apply in confidence, with details of previous experience and copies of references to Managing Director, The Croft Granite, Brick & Concrete Co., Ltd., Croft, Leics. 2146

ARCHITECTS' ASSISTANT, with experience and ability, required immediately for busy office engaged on a variety of work. Apply, stating age, experience, and salary required, to Quick & Lee, Chartered Architects, 11, Waterloo Place, Leamington Spa. 2147

SENIOR ARCHITECTURAL ASSISTANT required. Please write, giving particulars of experience. Leonard J. Multon, F.R.I.B.A., 6, Greenfield Crescent, Birmingham, 15. 2022

ARCHITECTURAL ASSISTANTS required by leading London firm of storefitters. Excellent prospects. Apply stating age, experience and salary required. Box 2105.

CECIL HOWITT & PARTNERS, Architects, of St. Andrew's House, Mansfield Road, Nottingham, require JUNIOR ARCHITECTURAL ASSISTANT, preferably Inter. R.I.B.A. standard. Please apply in writing, giving full details and stating salary required. 2121

JUNIOR ARCHITECTURAL ASSISTANT required. Salary £390-£442. Co-partnership firm with opportunities for keen man. Apply Co-operative Planning Ltd., 73b, South Side, Clapham Common, S.W.4. 2122

ARCHITECTURAL ASSISTANT required at an early date for general practice with experience in industrial buildings, licensed premises and alteration work. R.I.B.A. Intermediate standard. Salary according to experience but minimum starting salary £500.—J. R. Wetherell and Lamb, L/L.R.I.B.A., 42, Victoria Road, Darlington, Co. Durham. 2124

ARCHITECTURAL DRAUGHTSMEN required for design work on industrial buildings. Experience on similar work and intermediate R.I.B.A. standard essential. Five-day week. Staff pension scheme. Good transport and canteen facilities. Salary according to age, qualifications and experience. Write giving full details to:—Personnel Manager, Metropolitan-Vickers Electrical Co. Ltd., Trafford Park, Manchester, 17. Mark envelope "Architectural Draughtsman." 2125

NEW PREMISES are shortly to be occupied by SAMUEL MORRISON & PARTNERS and ASSISTANTS are required for contemporary work in the following spheres: schools, housing, factories and shops, with particular emphasis on industrial design and prefabricated structures. The offices will be situated in a pleasant old vicarage in its own grounds. Salary according to ability and experience. Derwent House, Full Street, Derby. 2126

ASSISTANT required for firm of contemporary Architects, the following qualifications being essential:—

(*a*) Should have reached Intermediate standard.
(*b*) Excellent drafting ability.
(*c*) Several years' office experience.
(*d*) Sound knowledge of construction.
(*e*) Keen interest in modern architecture.

Boissevain & Osmond, Portland Place, W.1. LAN. 7406 2130

SENIOR ARCHITECTURAL ASSISTANT for leading office in Nairobi. At least five years post-qualifying experience. Free passage, salary and bonus, leave scheme.—Further particulars from Overseas Technical Service, 5, Welldon Crescent, Harrow, quoting reference: OSS. 17/6. 2108

SENIOR and JUNIOR ARCHITECTURAL ASSISTANTS required for Watford office. Five-day week. Salary according to experience. Box 2112.

ARCHITECT, with small office, N.W.1, requires ASSISTANT for work on alterations, conversions and some new building for large institution containing historic structures. 2-3 years' experience guaranteed. Starting salary: £600-£720, according to qualifications. Write brief particulars to Box 2115.

ARCHITECTURAL ASSISTANT, Intermediate or final standard, required for busy contemporary London office. Previous office experience an advantage. Box 2140.

QUALIFIED ARCHITECT AND DRAUGHTSMAN with knowledge of steel engineering wanted to assist in the design and planning of a very large and modern ballroom and dining-room. Box 2139.

SENIOR ASSISTANT urgently required; Maidstone, Kent, architect. Salary £800. State age, experience. Good prospects. Box 2107.

QUALIFIED ARCHITECTURAL ASSISTANT required for large general practice in Bristol, must have had some years' office experience and be capable of taking sole charge of small contracts. Salary £500 to £600 per annum, according to experience. Apply Box 2136.

SENIOR AND JUNIOR ARCHITECTURAL ASSISTANTS and Draughtsmen or women required in busy office in the Home Counties. Some experience essential. Large varied practice. Please state experience and salary required. Box 2137.

SENIOR ASSISTANT required for preparation of working drawings for interesting schemes abroad. Salary £12-£15 per week. Box 2138.

ARCHITECTURAL ASSISTANT required for West End office. Salary: £500 to £600 p.a. Five-day week. Box 2113.

Architectural Appointments Wanted

SENIOR ARCHITECT, A.A., 12 years' experience in London offices. Housing development and flat buildings specialist. Also experience in conversions and prefabrications, seeks post in London. Work commenceable immediately. Box 866.

JUNIOR DRAUGHTSMAN (age 21) requires position, with prospects, S.E. London area. Knowledge of b./construction, of 1st year national cert. std. D. Carter, 9, Dundalk Road, Brockley, S.E.4. 2152

A.R.I.B.A. (34), 12 years' varied technical and administrative office experience, including large industrial, commercial, and domestic contracts from sketch stage to final accounts, and control of staff, seeks progressive position. Box 867.

ARCHITECTURAL ASSISTANT (27), 8 years' varied experience, sketch schemes, working drawings, details and surveys, seeks position, London area or S.E. England. Box 2153.

SENIOR ARCHITECTURAL ASSISTANT (school trained), 20 years' experience in preparation of working drawings, details, supervision of office and industrial buildings, laboratories, etc.; good knowledge of construction and design, seeks permanent and responsible position in London area. Box 868.

Other Appointments Vacant

4 lines or under, 7s. 6d.; each additional line, 2s.

The engagement of persons answering these advertisements must be made through a Local Office of the Ministry of Labour or a Scheduled Employment Agency if the applicant is a man aged 18-64 inclusive or a woman aged 18-59 inclusive unless he or she or the employment, is excepted from the provisions of the Notification of Vacancies Order, 1952.

VACANCY arises for Articled Pupil (Architectural or Building Surveying) in City Firm. Box 1720.

BUILDING SURVEYOR, age about 23 years, required in busy office. Inter. standard of R.I.C.S. Must be rapid and accurate draughtsman and capable of supervising smaller works of construction. Experience with level and theodolite an advantage. Must have completed National Service. Salary £400 p.a. plus certain emoluments. Write only, Richard Austin & Wyatt, Chartered Surveyors, 79, High Street, Fareham, Hants. 2135

BUILDING SURVEYOR, aged 27/35, required by Chartered Surveyors (City) to measure, specify and supervise works to Commercial properties. Able to prepare own Drawings and Details and with experience of Dilapidation Claims. Salary £600 p.a. with scope for advancement. Box 2163.

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MATTHEW POLLOCK,
County Clerk.

County Buildings, Cupar, Fife.
25th March, 1954. 2109

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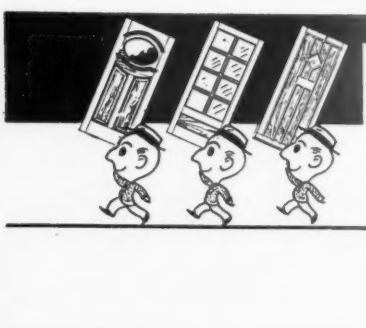
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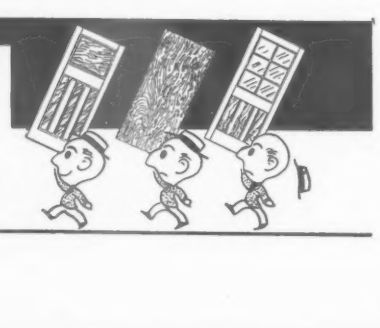


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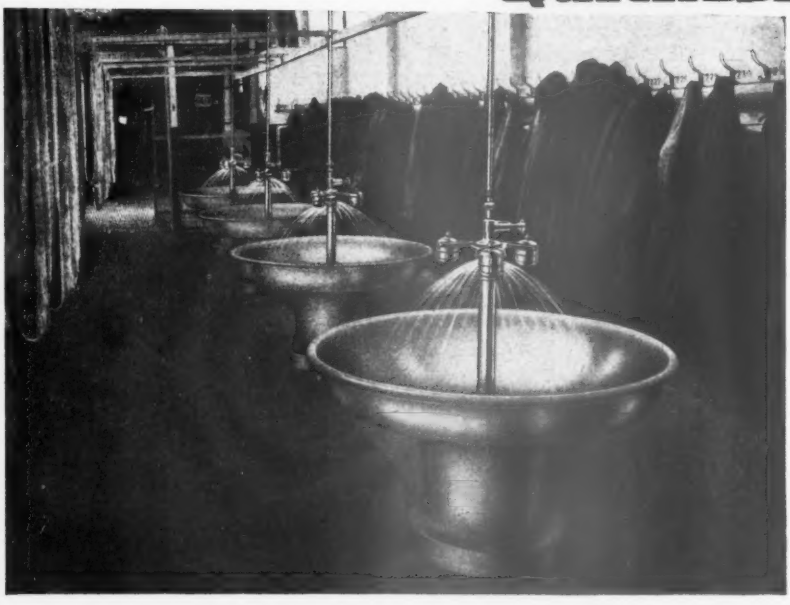
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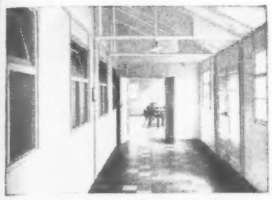
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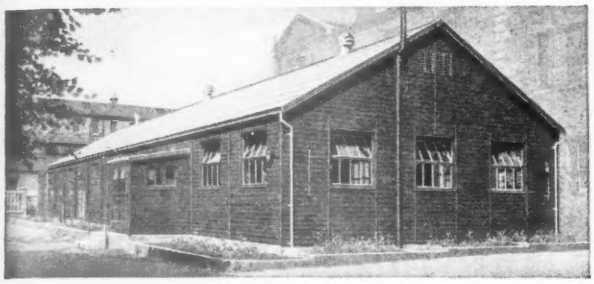
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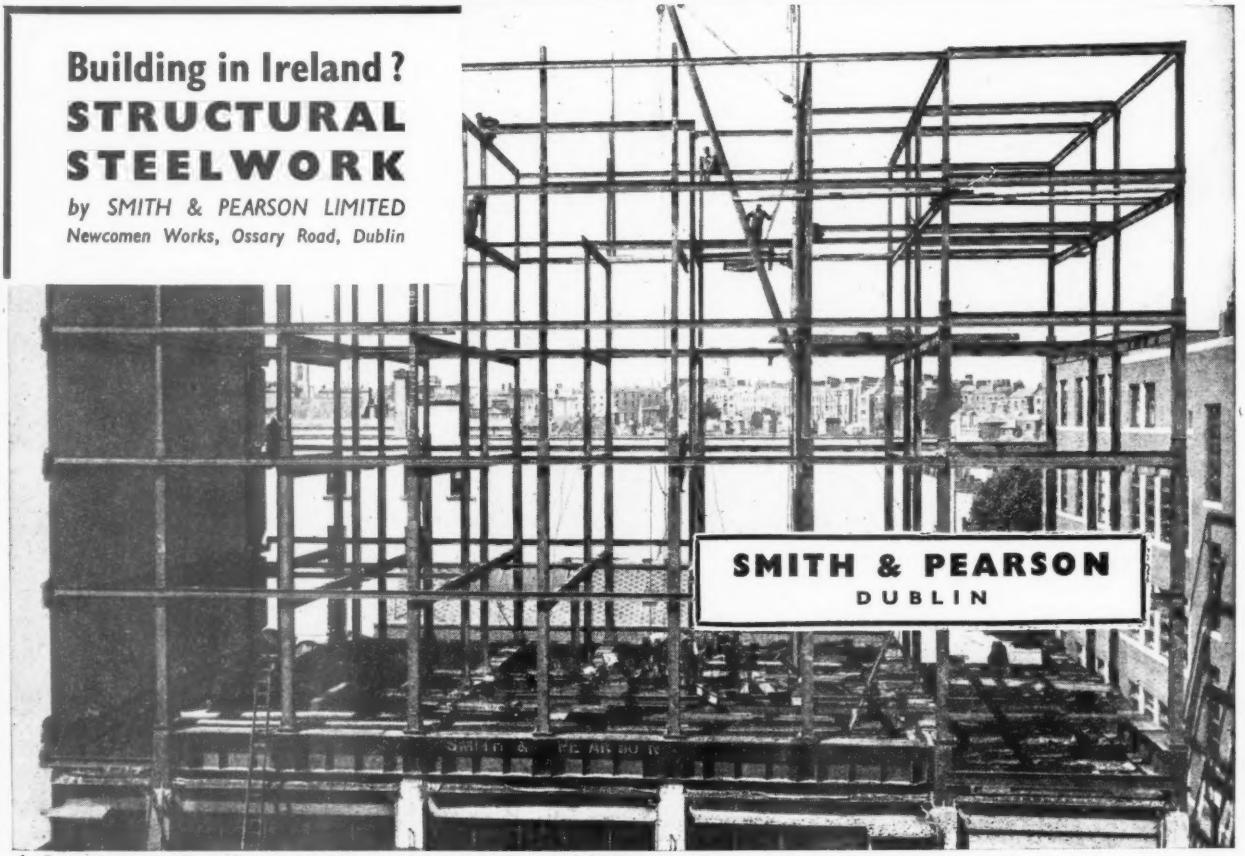


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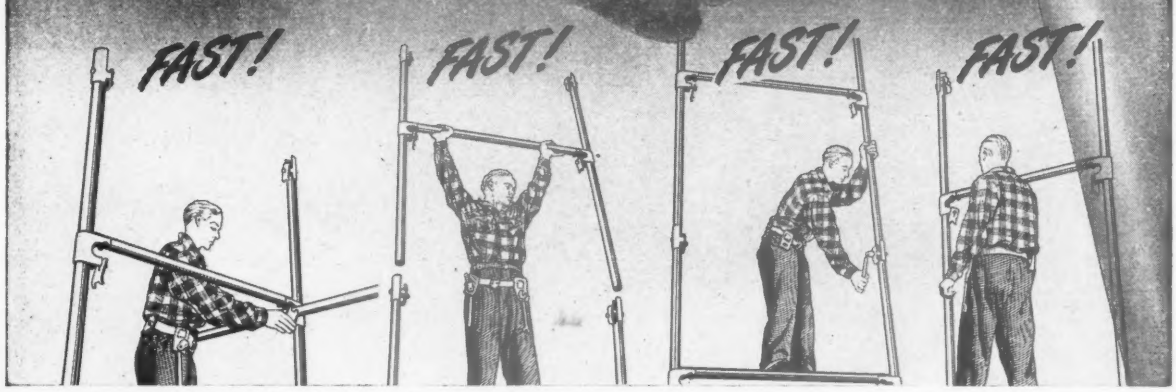
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